



Fiscal Year 1998 - 1999

**SAFE
COMMUNITIES
SAN DIEGO COUNTY**

**REPORT OF
FATAL AND INJURY
TRAFFIC COLLISIONS**

Produced by the County of San Diego, Health and Human Services Agency,
Division of Emergency Medical Services, January 2001
Funding for this program was provided by a grant from the California Office of Traffic Safety
through the Business, Transportation & Housing Agency

SAFE COMMUNITIES 1998/99

SAFE COMMUNITIES - SAN DIEGO COUNTY

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REPORT OF FATAL AND INJURY TRAFFIC COLLISIONS

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INTRODUCTION

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SAFE COMMUNITIES IN THE COUNTY OF SAN DIEGO

Safe Communities is a program funded by the Office of Traffic Safety (OTS) through the Business, Transportation and Housing Agency of California, and the National Highway Traffic Safety Administration (NHTSA). The Safe Communities Program utilizes a community-based, coalition-led model driven by data analysis for prevention of injuries and deaths from motor vehicle crashes.

In the County of San Diego, two projects have received funding which together provide coverage over the entire geographic area of the county. For the purposes of the Safe Communities Program, the county has been divided into five geographic regions based on subregional areas defined by the San Diego Association of Governments (SanDAG).

One of the two projects, entitled “San Diego Safe Communities–2000”, is administered by the San Diego Police Department-Traffic Division. It provides coverage for the following nine areas that collectively constitute the “**City of San Diego Region**”:

- Central San Diego
- Southeast San Diego
- Mid City
- Kearny Mesa
- Coastal
- University
- Del Mar-Mira Mesa
- Miramar
- Elliot-Navajo

The San Diego State University Foundation administers the other of the two projects, entitled “Safe Communities – San Diego County.” It provides coverage for the other four geographic regions of the county as defined below:

North County Coastal Region

- Pendleton
- San Dieguito
- Carlsbad
- Oceanside
- Vista
- North San Diego

North County Inland Region

- Escondido
- San Marcos
- Valley Center
- Pauma
- Fallbrook
- Palomar-Julian
- Ramona
- Anza-Borrego
- Poway

South Bay Region

- Peninsula
- Coronado
- National City
- Sweetwater
- Chula Vista
- South Bay

East County Region

- Jamul
- Spring Valley
- Lemon Grove
- La Mesa
- El Cajon
- Santee
- Lakeside
- Harbison-Crest
- Alpine
- Laguna-Pine Valley
- Mountain Empire

About This Report

The County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services (EMS) provides data to both of these projects from a variety of databases.

The data summaries in this report have been produced by EMS based on data obtained from the State-Wide Integrated Traffic Records System (SWITRS). The data from SWITRS for the County of San Diego have been geo-coded at EMS using an ArcView based system. This geo-coding has enabled EMS to create data summaries separately for each of the regions as well as to produce maps showing the location of the crashes.

This report provides the same set of tables, charts, and maps for the County of San Diego and each of the four geographic regions covered by “Safe Communities – San Diego County”. The County of San Diego section has two additional tables that summarize crash and victim data across all regions. The report for the City of San Diego Region is contained in a separate document.

SAFE COMMUNITIES • SAN DIEGO COUNTY

Safe Communities • San Diego County is a program designed to reduce traffic related injuries and fatalities throughout San Diego. Motor vehicle occupant, motorcycle, pedalcycle, and pedestrian issues are addressed in the North County Coastal, North County Inland, South Bay, and East County Regions of the County.

SAFE COMMUNITIES REGIONS

The North County Coastal Region includes the communities of Pendleton, Oceanside, Vista, Carlsbad, San Dieguito, and North San Diego.

The North County Inland Region includes the communities of Escondido, San Marcos, Valley Center, Fallbrook, Pauma, Palomar/Julian, Anza-Borrego, Poway, and Ramona.

The South Bay Region includes the communities of Peninsula, Coronado, National City, Chula Vista, Sweetwater, and South Bay.

The East County Region includes the communities of Lakeside, Santee, La Mesa, Lemon Grove, El Cajon, Spring Valley, Jamul, Harbison-Crest, Alpine, Laguna-Pine Valley, and Mountain Empire.

COALITIONS

Safe Communities • San Diego County maintains four regional coalitions and one Countywide Executive Committee. Coalition membership is voluntary, and participants include representatives from the medical community, law enforcement agents, education leaders, employers, members from the healthcare field, first responders, injury prevention specialists, community members, and others. The Safe Communities coalitions assist in the identification of regional traffic injury issues, participate in community outreach efforts, provide support to other coalition members, and implement traffic safety measures in their regions.

DATA

Safe Communities • San Diego County strives to be data driven. Injury and fatality statistics are used to help determine the traffic safety challenges in each of the Safe Communities Regions. Data is collected through surveys, the Statewide Integrated Traffic Records System (SWITRS), the Prehospital Database, the Trauma Registry, the Medical Examiner's Database, Vital Records, a GIS mapping system, and population estimates. The collection and analysis of this information enables Safe Communities coalitions to address appropriate injury prevention methods throughout the County.

COMMUNITY ACTION

Traffic safety interventions are a key component to the success of Safe Communities • San Diego County. Local, grassroots efforts serve the populations in San Diego by addressing the unique needs of individual communities. Mini-grant funding is made available through Safe Communities to community-based organizations dedicated to serving the San Diego area with traffic related intervention programs.

TRAFFIC SAFETY PARTNERS

Safe Communities is funded by a grant from the California Office of Traffic Safety through the Business, Transportation, and Housing Agency. Safe Communities • San Diego County partners with a variety of organizations to assist in the development and implementation of its injury prevention model. These agencies include San Diego State University/Graduate School of Public Health, SDSU Foundation, Emergency Medical Services Division of San Diego County's Health and Human Services Agency, California Department of Health Services, and National Highway Traffic Safety Administration.

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COUNTY OF SAN DIEGO**

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SAFE COMMUNITIES 1998/99 COUNTY OF SAN DIEGO

DEFINITION OF TERMS

Types of Crashes:

1. ***Injury Crash***: Any motor vehicle crash involving one or more motor vehicles, in which one or more persons was killed or injured.
2. A ***Motor Vehicle Occupant Crash*** is an injury crash ...
 - a. in which the initial impact was between two or more motor vehicles, or the crash involved only a single vehicle (e.g., impact with a fixed object, or a rollover), and
 - b. none of these motor vehicles was a motorcycle, and
 - c. the initial impact was not with a pedalcyclist or a pedestrian, and
 - d. where at least one of the occupants of a motor vehicle was killed or injured.

Note: There may be injuries or fatalities among non-motor vehicle occupants (motorcyclists, pedestrians, pedalcyclists) in Motor Vehicle Occupant Crashes. Only injuries and fatalities among motor vehicle occupants are reported in section 2 of this document.

3. A ***Motorcycle Crash*** is an injury crash...
 - a. in which one or more of the motor vehicles is a motorcycle and
 - b. the initial impact was not with a pedalcycle or a pedestrian.

Note: There may be injuries or fatalities to non-motorcycle riders (motor vehicle occupants, pedestrians, pedalcyclists) in Motorcycle Crashes. Only injuries and fatalities among motorcyclists are reported in section 4 of this document.

4. A ***Pedalcycle Crash*** is an injury crash in which the initial impact involved a pedalcycle but not a pedestrian.

Note: There may be injuries or fatalities to non-pedalcyclists (motor vehicle occupants, motorcyclists, pedestrians) in Pedalcycle Crashes. Only injuries and fatalities among pedalcyclists are reported in section 6 of this document.

5. A ***Pedestrian Crash*** is an injury crash in which the initial impact involved a pedestrian.

Note: There may be injuries or fatalities to non-pedestrians (motor vehicle occupants, motorcyclists, pedalcyclists) in Pedestrian Crashes. Only injuries and fatalities among pedestrians are reported in section 8 of this document.

Statistical Measures

1. **Population:** Calculated from SANDAG estimates for subregional areas on January 1, 1999.
2. **Area:** Calculated from data received from SANDAG for subregional areas.
3. **Crash Victim Injury Rate (Pop):** The number of persons killed or injured in all motor vehicle crashes per 1000 population.
4. **Crash Victim Injury Rate (Sq. Mi.):** The number of persons killed or injured in all motor vehicle crashes per square mile of area.
5. **Number of Licensed Drivers:** Obtained from SWITRS "1998 Annual Report of Fatal and Injury Motor Vehicle Traffic Collisions".
6. **Number of Registered Vehicles:** Obtained from SWITRS "1998 Annual Report of Fatal and Injury Motor Vehicle Traffic Collisions".

Safe Communities Regions:

The geographic areas covered by the Safe Communities Regions are determined by the boundaries of the Subregional Areas of San Diego County of which they are composed. Listed below are the Subregional Areas that constitute each of the Regions.

City of San Diego Region:

Central San Diego
Southeast San Diego
Mid City
Kearny Mesa
Coastal
University
Del Mar-Mira Mesa
Miramar
Elliot-Navajo

North County Inland Region:

Escondido
San Marcos
Valley Center
Pauma
Fallbrook
Palomar-Julian
Ramona
Anza-Borrego
Poway

East County Region:

Jamul
Spring Valley
Lemon Grove
La Mesa
El Cajon
Santee
Lakeside
Harbison-Crest
Alpine
Laguna-Pine Valley
Mountain Empire

North County Coastal Region:

Pendleton
San Dieguito
Carlsbad
Oceanside
Vista
North San Diego

South Bay Region:

Peninsula
Coronado
National City
Sweetwater
Chula Vista
South Bay

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**REPORT OF
FATAL AND INJURY
TRAFFIC COLLISIONS**

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COUNTY OF SAN DIEGO

Fiscal Year 1998 - 1999

*Produced by the County of San Diego, Health and Human Services Agency,
Division of Emergency Medical Services, January 2001*

*Funding for this program was provided by a grant from the California Office of Traffic Safety
through the Business, Transportation & Housing Agency*

1: OVERVIEW

Table 1-1
Number of Victims Killed or Injured in Crashes in the County of San Diego
by Type of Crash and Type of Victim
July 1, 1998 to June 30, 1999

Type of Crash	Type of Victim								Total	
	Motor Vehicle Occupant	Motorcyclist	Pedestrian	Pedalcyclist	Other					
Motor Vehicle Occupant	19828† (99.83%)*	0 (0.00%)	28 (0.14%)	0 (0.00%)	6 (0.03%)				19862	(100.%)
Motorcycle	33 (4.65%)	675† (95.20%)	0 (0.00%)	1 (0.14%)	0 (0.00%)				709	(100.%)
Pedalcycle	4 (0.51%)	2 (0.25%)	14 (1.78%)	765† (97.45%)	0 (0.00%)				785	(100.%)
Pedestrian	20 (1.70%)	6 (0.51%)	1149† (97.79%)	0 (0.00%)	0 (0.00%)				1175	(100.%)
Other	20 (10.93%)	0 (0.00%)	20 (10.93%)	127 (69.40%)	16 (8.74%)				183	(100.%)
Total	19905 (87.63%)	683 (3.01%)	1211 (5.33%)	893 (3.93%)	22 (0.10%)				22714	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

†These are the victims included in the tables in sections 2, 4, 6, and 8.

Table 1-2
Number of Victims Killed or Injured in Crashes in the County of San Diego
by Type of Crash and Severity of Injury
July 1, 1998 to June 30, 1999

Type of Crash	Severity of Injury								Total	
	Killed	Severe Injury	Other Visible Injury	Complaint of Pain						
Motor Vehicle Occupant	174 (0.88%)*	650 (3.27%)	5101 (25.68%)	13937 (70.17%)					19862	(100.%)
Motorcycle	15 (2.12%)	111 (15.66%)	371 (52.33%)	212 (29.90%)					709	(100.%)
Pedalcycle	6 (0.76%)	50 (6.37%)	484 (61.66%)	245 (31.21%)					785	(100.%)
Pedestrian	67 (5.70%)	181 (15.40%)	518 (44.09%)	409 (34.81%)					1175	(100.%)
Other	1 (0.55%)	29 (15.85%)	115 (62.84%)	38 (20.77%)					183	(100.%)
Total	263 (1.16%)	1021 (4.50%)	6589 (29.01%)	14841 (65.34%)					22714	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Figure 1.1
Characteristics of the County of San Diego and the Safe Communities Regions

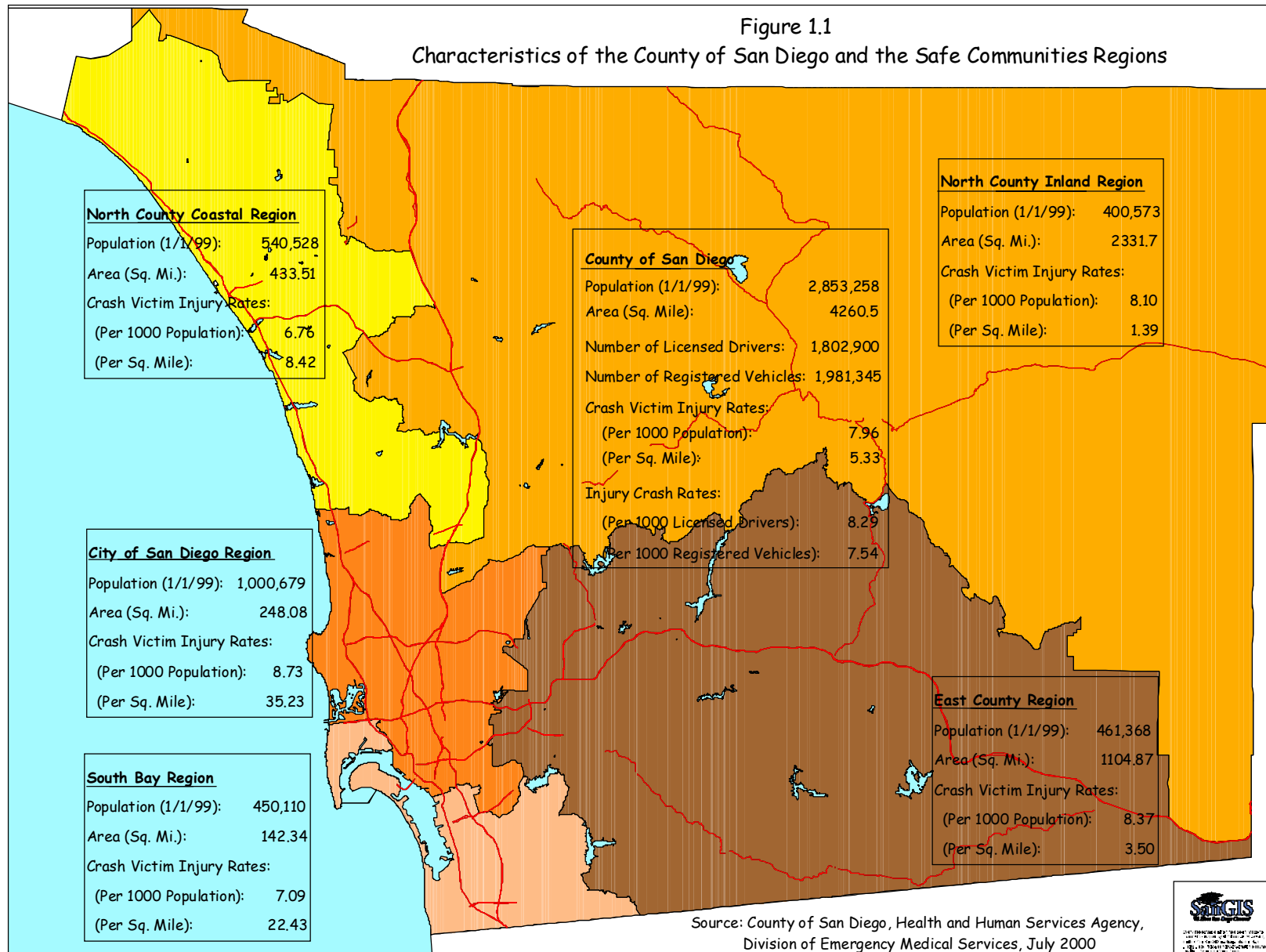


Table 1-3
Number of Fatal or Injury Crashes in the County of San Diego
by Type of Crash and Safe Communities Regions
July 1, 1998 to June 30, 1999

Type of Crash	Safe Communities Region										Total			
	City of San Diego Region		North County Coastal Region		North County Inland Region		South Bay Region		East County Region				Unknown	
Motor Vehicle Occupant	4721	(81.47%)*	2073	(85.70%)	1694	(82.63%)	1737	(81.13%)	2050	(81.45%)	17	(89.47%)	12292	(82.27%)
Motorcycle	208	(3.59%)	87	(3.60%)	133	(6.49%)	67	(3.13%)	129	(5.13%)	0	(0.00%)	624	(4.18%)
Pedalcycle	315	(5.44%)	88	(3.64%)	88	(4.29%)	123	(5.74%)	145	(5.76%)	2	(10.53%)	761	(5.09%)
Pedestrian	482	(8.32%)	149	(6.16%)	107	(5.22%)	195	(9.11%)	161	(6.40%)	0	(0.00%)	1094	(7.32%)
Other	69	(1.19%)	22	(0.91%)	28	(1.37%)	19	(0.89%)	32	(1.27%)	0	(0.00%)	170	(1.14%)
Total	5795	(100.%)	2419	(100.%)	2050	(100.%)	2141	(100.%)	2517	(100.%)	19	(100.%)	14941	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are column percents.

Table 1-4
Number of Victims Killed or Injured in Crashes in the County of San Diego
by Type of Crash and Safe Communities Regions
July 1, 1998 to June 30, 1999

Type of Crash	Safe Communities Region										Total			
	City of San Diego Region		North County Coastal Region		North County Inland Region		South Bay Region		East County Region				Unknown	
Motor Vehicle Occupant	7579	(86.72%)*	3279	(89.79%)	2851	(87.91%)	2765	(86.60%)	3366	(87.16%)	22	(91.67%)	19862	(87.44%)
Motorcycle	234	(2.68%)	99	(2.71%)	159	(4.90%)	74	(2.32%)	143	(3.70%)	0	(0.00%)	709	(3.12%)
Pedalcycle	325	(3.72%)	90	(2.46%)	92	(2.84%)	128	(4.01%)	148	(3.83%)	2	(8.33%)	785	(3.46%)
Pedestrian	530	(6.06%)	161	(4.41%)	109	(3.36%)	204	(6.39%)	171	(4.43%)	0	(0.00%)	1175	(5.17%)
Other	72	(0.82%)	23	(0.63%)	32	(0.99%)	22	(0.69%)	34	(0.88%)	0	(0.00%)	183	(0.81%)
Total	8740	(100.%)	3652	(100.%)	3243	(100.%)	3193	(100.%)	3862	(100.%)	24	(100.%)	22714	(100.%)

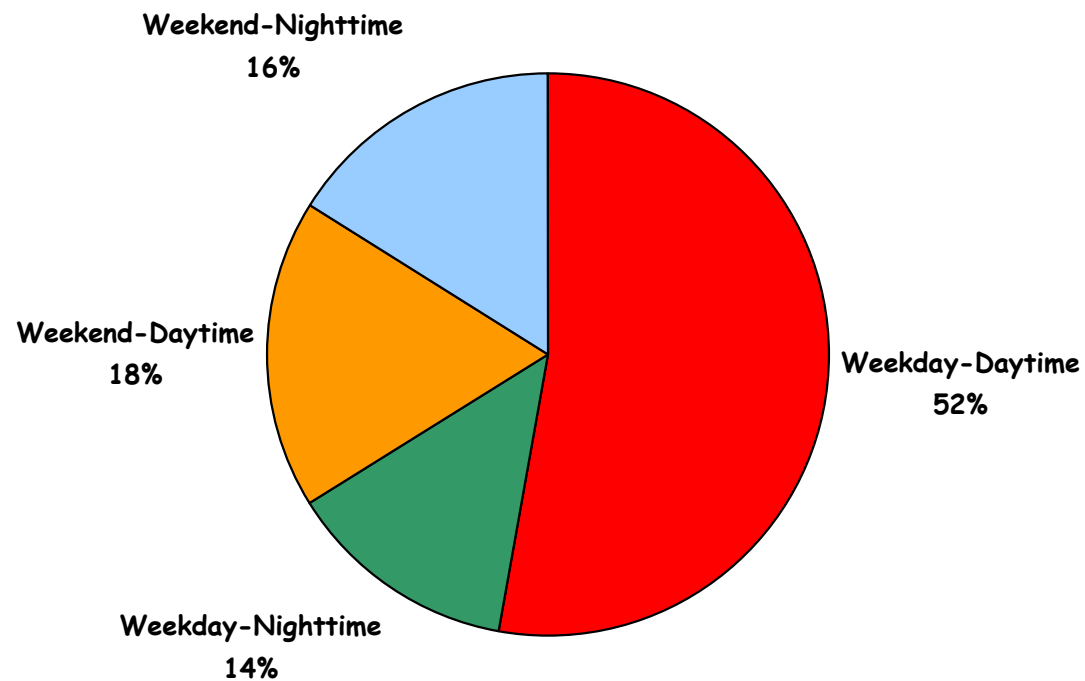
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are column percents.

2: MOTOR VEHICLE OCCUPANT VICTIMS

Table 2-1 Leading Causes of Motor Vehicle Occupant Injuries by Age Group of Victim County of San Diego							
Age Group of Victim	Rank of Violation Category						Total Number of Victims
	1	2	3	4	5	6	
0-4	Unsafe Speed 95	Automobile Right-of-Way 78	Improper Turning 38	Traffic Signals & Signs 35	DUI Alcohol/Drugs 28	Wrong Side of Road 12	338
5-9	Unsafe Speed 173	Automobile Right-of-Way 106	Improper Turning 63	Traffic Signals & Signs 51	DUI Alcohol/Drugs 35	Following Too Closely 27	552
10-14	Unsafe Speed 224	Automobile Right-of-Way 108	Improper Turning 69	Traffic Signals & Signs 60	DUI Alcohol/Drugs 36	Following Too Closely 29	620
15-19	Unsafe Speed 819	Automobile Right-of-Way 466	Improper Turning 442	DUI Alcohol/Drugs 289	Traffic Signals & Signs 242	Unsafe Lane Change 101	2791
20-24	Unsafe Speed 758	Automobile Right-of-Way 460	DUI Alcohol/Drugs 436	Improper Turning 407	Traffic Signals & Signs 250	Unsafe Lane Change 105	2879
25-34	Unsafe Speed 1286	Automobile Right-of-Way 658	DUI Alcohol/Drugs 538	Improper Turning 417	Traffic Signals & Signs 385	Following Too Closely 201	4078
35-44	Unsafe Speed 1078	Automobile Right-of-Way 525	DUI Alcohol/Drugs 391	Improper Turning 359	Traffic Signals & Signs 351	Following Too Closely 166	3411
45-54	Unsafe Speed 751	Automobile Right-of-Way 355	Traffic Signals & Signs 237	Improper Turning 214†	DUI Alcohol/Drugs 214†	Following Too Closely 118	2242
55-64	Unsafe Speed 372	Automobile Right-of-Way 227	Traffic Signals & Signs 136	Improper Turning 103	DUI Alcohol/Drugs 78	Following Too Closely 66	1185
65-74	Unsafe Speed 254	Automobile Right-of-Way 153	Traffic Signals & Signs 84	Improper Turning 76	DUI Alcohol/Drugs 46	Following Too Closely 34	780
75-84	Unsafe Speed 138	Automobile Right-of-Way 136	Traffic Signals & Signs 71	Improper Turning 67	DUI Alcohol/Drugs 26	Following Too Closely 25	548
85+	Automobile Right-of-Way 37	Unsafe Speed 31	Traffic Signals & Signs 18	Improper Turning 16	Wrong Side of Road 6	Following Too Closely 4	129
All Ages	Unsafe Speed 6044	Automobile Right-of-Way 3359	Improper Turning 2293	DUI Alcohol/Drugs 2152	Traffic Signals & Signs 1953	Following Too Closely 884	19828
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.							
† Tie							

Figure 2.1
Motor Vehicle Occupant Crash Victims by Time of Week
County of San Diego



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

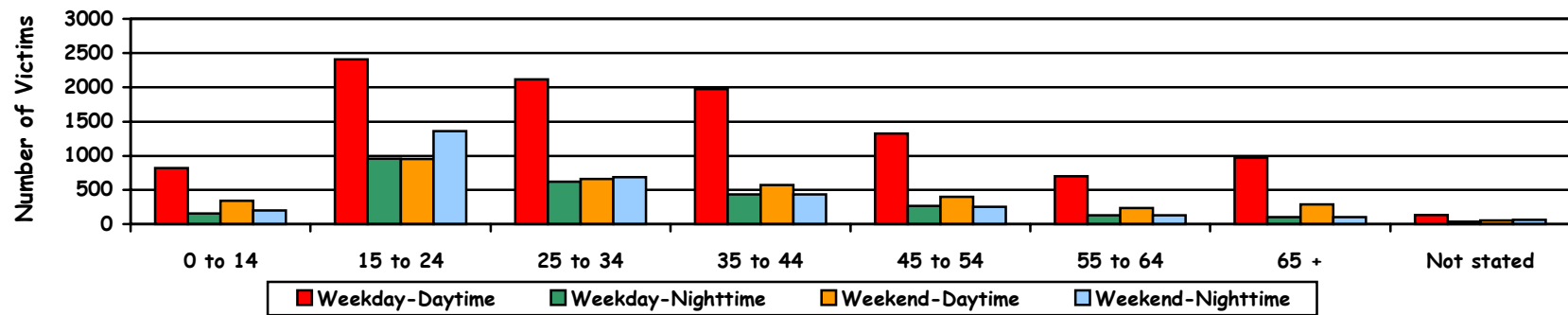
Table 2-2
Number of Motor Vehicle Occupant Victims Killed or Injured
in Motor Vehicle Occupant Crashes in the County of San Diego
by Age of Victim and Time of Week
July 1, 1998 to June 30, 1999

Age of Victim	Time of Week										Total	
	Not Stated		Weekday-Daytime		Weekday-Nighttime		Weekend-Daytime		Weekend-Nighttime			
1 to 4	0	(0.00%)*	195	(57.69%)	30	(8.88%)	64	(18.93%)	49	(14.50%)	338	(100.%)
5 to 9	0	(0.00%)	297	(53.80%)	53	(9.60%)	133	(24.09%)	69	(12.50%)	552	(100.%)
10 to 14	0	(0.00%)	323	(52.10%)	71	(11.45%)	145	(23.39%)	81	(13.06%)	620	(100.%)
15 to 19	1	(0.04%)	1195	(42.82%)	466	(16.70%)	455	(16.30%)	674	(24.15%)	2791	(100.%)
20 to 24	1	(0.03%)	1215	(42.20%)	489	(16.99%)	493	(17.12%)	681	(23.65%)	2879	(100.%)
25 to 34	0	(0.00%)	2118	(51.94%)	618	(15.15%)	657	(16.11%)	685	(16.80%)	4078	(100.%)
35 to 44	1	(0.03%)	1976	(57.93%)	433	(12.69%)	571	(16.74%)	430	(12.61%)	3411	(100.%)
45 to 54	0	(0.00%)	1325	(59.10%)	265	(11.82%)	398	(17.75%)	254	(11.33%)	2242	(100.%)
55 to 64	1	(0.08%)	699	(58.99%)	126	(10.63%)	235	(19.83%)	124	(10.46%)	1185	(100.%)
65 to 74	0	(0.00%)	528	(67.69%)	49	(6.28%)	148	(18.97%)	55	(7.05%)	780	(100.%)
75 to 84	0	(0.00%)	365	(66.61%)	34	(6.20%)	113	(20.62%)	36	(6.57%)	548	(100.%)
85 and older	0	(0.00%)	81	(62.79%)	16	(12.40%)	23	(17.83%)	9	(6.98%)	129	(100.%)
Not stated	1	(0.36%)	133	(48.36%)	31	(11.27%)	51	(18.55%)	59	(21.45%)	275	(100.%)
Total	5	(0.03%)	10450	(52.70%)	2681	(13.52%)	3486	(17.58%)	3206	(16.17%)	19828	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

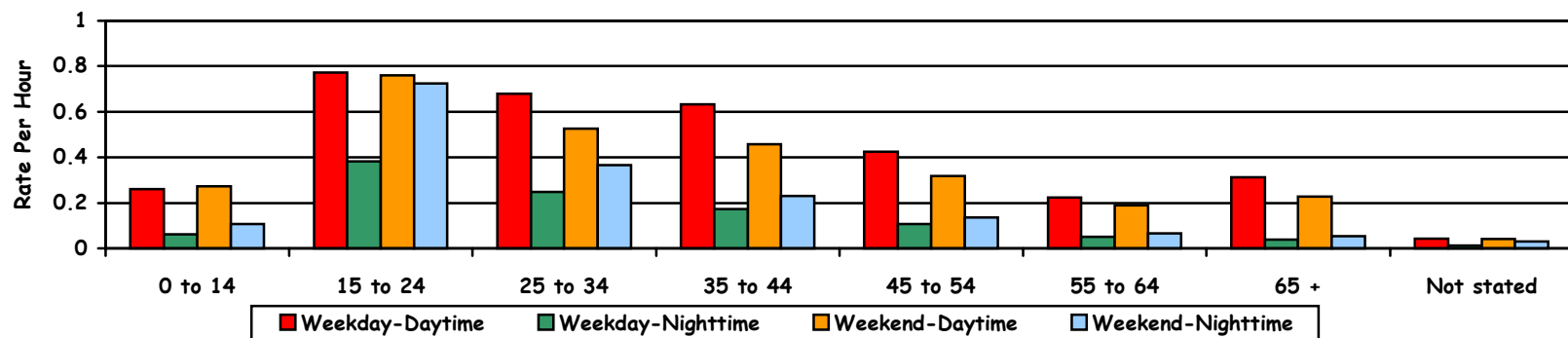
*Numbers in parentheses are row percents.

Figure 2.2
Motor Vehicle Occupant Crash Victims by Time of Week and Age of Victim
County of San Diego



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Figure 2.3
Motor Vehicle Occupant Victim Rates Per Hour by Time of Week and Age of Victim
County of San Diego



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 2-3
Number of Motor Vehicle Occupant Victims Killed or Injured in
Motor Vehicle Occupant Crashes in the County of San Diego
by Type of Collision and Severity of Injury
July 1, 1998 to June 30, 1999

Type of Collision	Severity of Injury								Total	
	Killed		Severe Injury		Other Visible Injury		Complaint of Pain			
Not Stated	0	(0.00%)*	0	(0.00%)	0	(0.00%)	4	(100.00%)	4	(100.%)
Head-on	23	(1.68%)	85	(6.23%)	442	(32.38%)	815	(59.71%)	1365	(100.%)
Sideswipe	13	(0.82%)	43	(2.72%)	400	(25.32%)	1124	(71.14%)	1580	(100.%)
Rear-end	15	(0.20%)	106	(1.38%)	1093	(14.25%)	6455	(84.17%)	7669	(100.%)
Broadside	26	(0.45%)	141	(2.47%)	1503	(26.30%)	4045	(70.78%)	5715	(100.%)
Hit Object	83	(3.01%)	217	(7.86%)	1305	(47.28%)	1155	(41.85%)	2760	(100.%)
Overtuned	9	(2.01%)	35	(7.81%)	262	(58.48%)	142	(31.70%)	448	(100.%)
Other	5	(1.74%)	19	(6.62%)	79	(27.53%)	184	(64.11%)	287	(100.%)
Total	174	(0.88%)	646	(3.26%)	5084	(25.64%)	13924	(70.22%)	19828	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 2-4
Number of Motor Vehicle Occupant Victims Killed or Injured in Motor Vehicle Occupant Crashes
in the County of San Diego
by Age of Victim and Safety Equipment Used
July 1, 1998 to June 30, 1999

Age of Victim	Safety Equipment Used										Total
	Active Restraint - Used	Active Restraint - Not Used	Passive Restraint - Used/ Deployed	Passive Restraint - Not Used/ Deployed	Child Restraint - Used	Child Restraint - Not Used	Child Restraint - Improper Use	None in Vehicle	Unknown	Other/Not Required	
1 to 4	125 (36.98%)*	14 (4.14%)	4 (1.18%)	0 (0.00%)	125 (36.98%)	6 (1.78%)	7 (2.07%)	19 (5.62%)	34 (10.06%)	4 (1.18%)	338 (100.%)
5 to 9	413 (74.82%)	38 (6.88%)	9 (1.63%)	5 (0.91%)	8 (1.45%)	0 (0.00%)	1 (0.18%)	16 (2.90%)	39 (7.07%)	23 (4.17%)	552 (100.%)
10 to 14	480 (77.42%)	54 (8.71%)	23 (3.71%)	4 (0.65%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	14 (2.26%)	30 (4.84%)	15 (2.42%)	620 (100.%)
15 to 19	2094 (75.03%)	248 (8.89%)	160 (5.73%)	10 (0.36%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	31 (1.11%)	221 (7.92%)	27 (0.97%)	2791 (100.%)
20 to 24	2147 (74.57%)	200 (6.95%)	177 (6.15%)	20 (0.69%)	1 (0.03%)	0 (0.00%)	0 (0.00%)	28 (0.97%)	290 (10.07%)	16 (0.56%)	2879 (100.%)
25 to 34	3156 (77.39%)	223 (5.47%)	243 (5.96%)	15 (0.37%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	38 (0.93%)	379 (9.29%)	24 (0.59%)	4078 (100.%)
35 to 44	2673 (78.36%)	144 (4.22%)	192 (5.63%)	19 (0.56%)	1 (0.03%)	0 (0.00%)	0 (0.00%)	25 (0.73%)	333 (9.76%)	24 (0.70%)	3411 (100.%)
45 to 54	1768 (78.86%)	87 (3.88%)	140 (6.24%)	19 (0.85%)	1 (0.04%)	0 (0.00%)	0 (0.00%)	8 (0.36%)	205 (9.14%)	14 (0.62%)	2242 (100.%)
55 to 64	973 (82.11%)	31 (2.62%)	55 (4.64%)	5 (0.42%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	5 (0.42%)	109 (9.20%)	7 (0.59%)	1185 (100.%)
65 to 74	640 (82.05%)	23 (2.95%)	45 (5.77%)	2 (0.26%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (0.13%)	64 (8.21%)	5 (0.64%)	780 (100.%)
75 to 84	433 (79.01%)	18 (3.28%)	43 (7.85%)	2 (0.36%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	50 (9.12%)	2 (0.36%)	548 (100.%)
85 and older	99 (76.74%)	4 (3.10%)	7 (5.43%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (0.78%)	18 (13.95%)	0 (0.00%)	129 (100.%)
Not stated	154 (56.00%)	18 (6.55%)	5 (1.82%)	2 (0.73%)	14 (5.09%)	0 (0.00%)	1 (0.36%)	3 (1.09%)	70 (25.45%)	8 (2.91%)	275 (100.%)
Total	15155 (76.43%)	1102 (5.56%)	1103 (5.56%)	103 (0.52%)	150 (0.76%)	6 (0.03%)	9 (0.05%)	189 (0.95%)	1842 (9.29%)	169 (0.85%)	19828 (100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

3: MOTOR VEHICLE OCCUPANT CRASHES

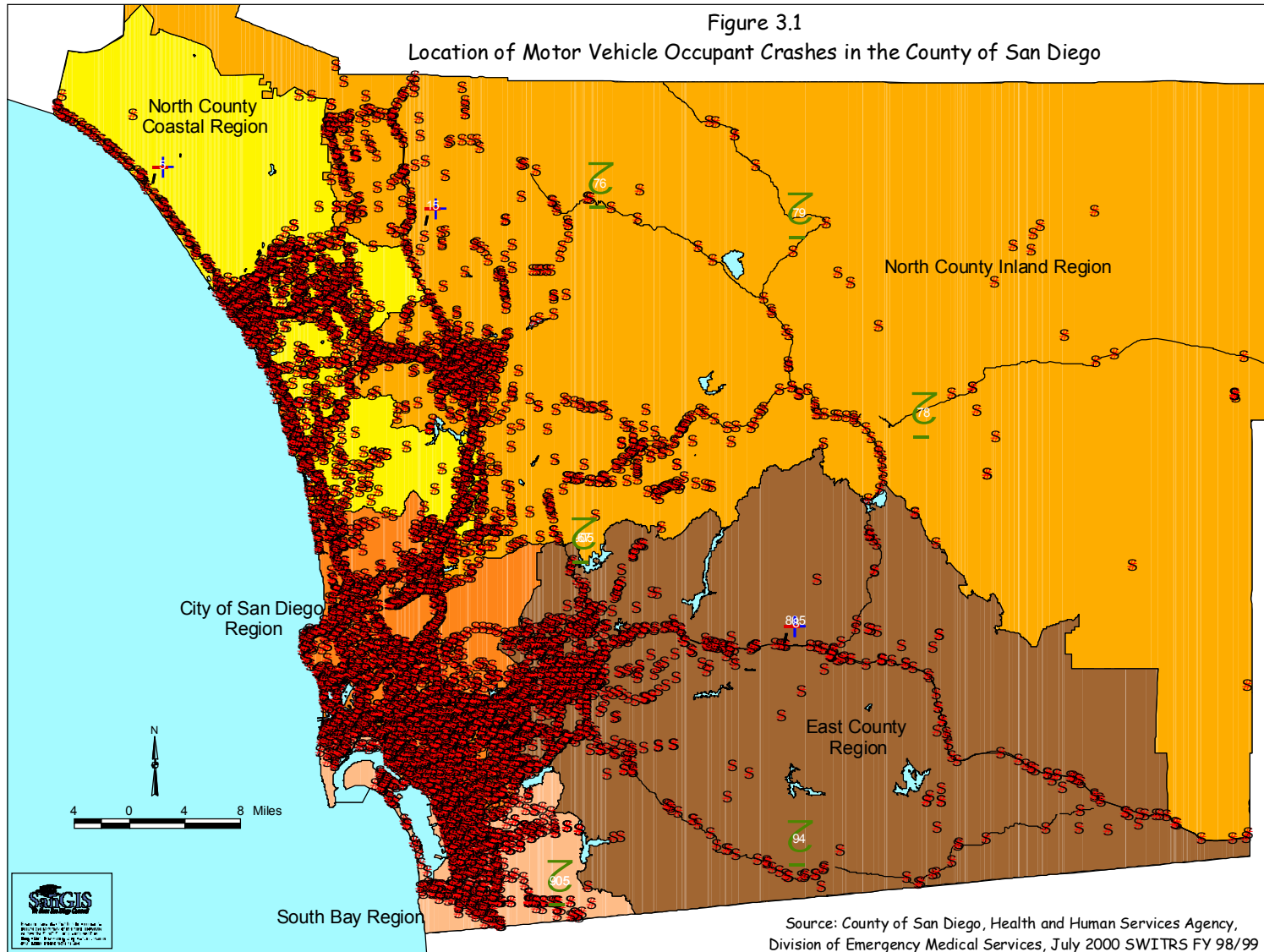


Table 3-1
Leading Violation Categories in Motor Vehicle Occupant Crashes by Age of Party at Fault
County of San Diego

Age of Party at Fault	Rank of Violation Category						Total Number of Crashes
	1	2	3	4	5	6	
1-4	*						1
5-9	*						1
10-14	Improper Turning 3	Unsafe Speed 2	*				7
15-19	Unsafe Speed 584	Automobile Right-of-Way 276	Improper Turning 268	Traffic Signals & Signs 133	DUI Alcohol/Drugs 116	Following Too Closely 67	1618
20-24	Unsafe Speed 552	Automobile Right-of-Way 277	Improper Turning 270	DUI Alcohol/Drugs 245	Traffic Signals & Signs 165	Following Too Closely 92	1790
25-34	Unsafe Speed 803	Automobile Right-of-Way 378	DUI Alcohol/Drugs 355	Improper Turning 278	Traffic Signals & Signs 225	Following Too Closely 117	2381
35-44	Unsafe Speed 675	DUI Alcohol/Drugs 299	Automobile Right-of-Way 281	Improper Turning 235	Traffic Signals & Signs 194	Following Too Closely 99	2010
45-54	Unsafe Speed 360	Automobile Right-of-Way 204	DUI Alcohol/Drugs 152	Improper Turning 146	Traffic Signals & Signs 102	Following Too Closely 55	1164
55-64	Unsafe Speed 162	Automobile Right-of-Way 136	Traffic Signals & Signs 73	Improper Turning 61	DUI Alcohol/Drugs 43	Wrong Side of Road 18	564
65-74	Automobile Right-of-Way 132	Unsafe Speed 122	Improper Turning 58	Traffic Signals & Signs 44	**		438
75-84	Automobile Right-of-Way 143	Unsafe Speed 92	Improper Turning 51	Traffic Signals & Signs 48	Following Too Closely 13†	Wrong Side of Road 13†	401
85+	Automobile Right-of-Way 31	Unsafe Speed 18†	Improper Turning 18†	Traffic Signals & Signs 11	Following Too Closely 6	Wrong Side of Road 4	91
All Crashes	Unsafe Speed 3701	Automobile Right-of-Way 2007	Improper Turning 1517	DUI Alcohol/Drugs 1313	Traffic Signals & Signs 1120	Following Too Closely 567	12292

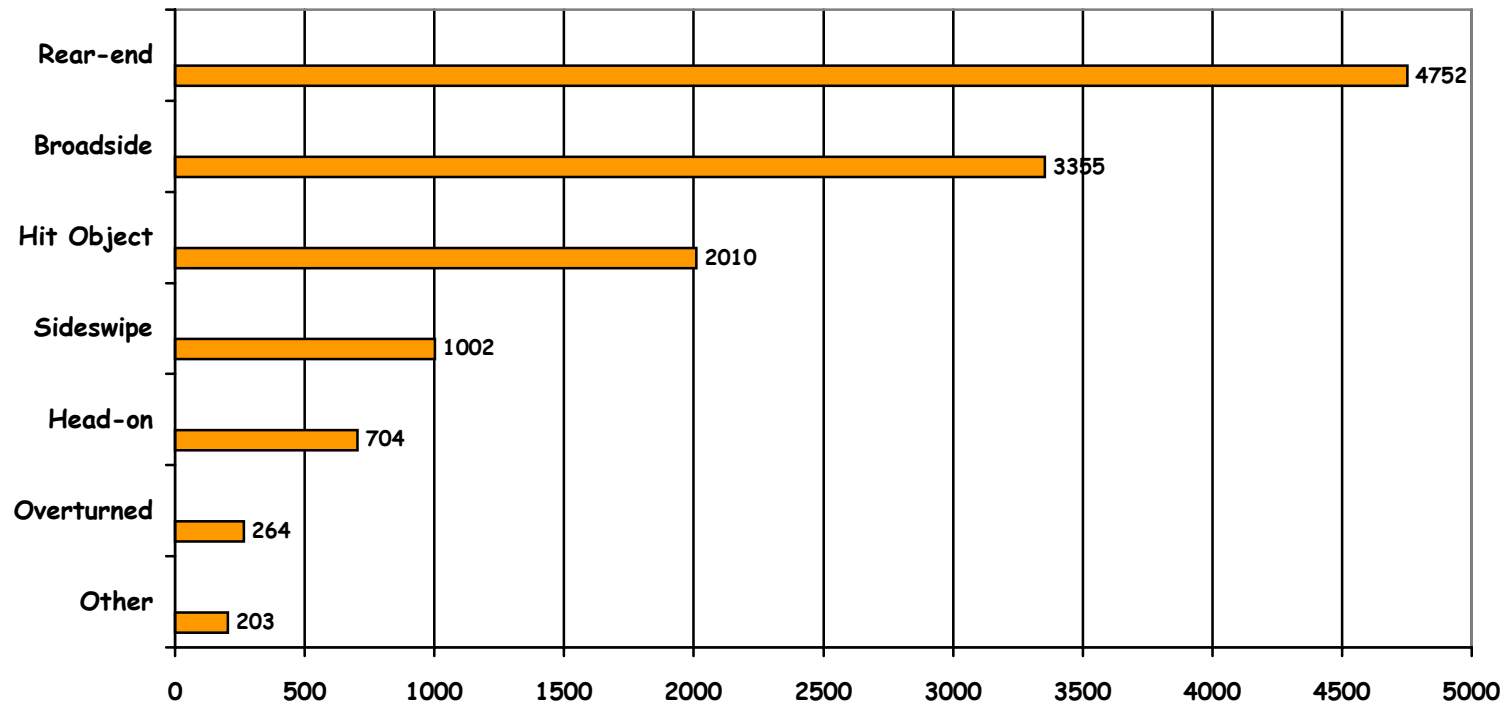
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

* Violation categories leading to a single crash were not ranked.

** Multiple violation categories with the same number of victims were not listed due to space limitations.

† Tie

Figure 3.2
Motor Vehicle Occupant Crashes by Type of Collision
County of San Diego



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 3-2
Number of Motor Vehicle Occupant Crashes in the County of San Diego
by Age of Party at Fault and Collision Type
July 1, 1998 to June 30, 1999

Age of Party at Fault	Collision Type								Total
	Not Stated	Head-on	Sideswipe	Rear-end	Broadside	Hit Object	Overtaken	Other	
Not Stated	0	33	87	306	118	76	13	11	644
	(0.00%)*	(5.12%)	(13.51%)	(47.52%)	(18.32%)	(11.80%)	(2.02%)	(1.71%)	(100.%)
1 to 4	0	0	0	0	0	0	0	1	1
	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(100.00%)	(100.%)
5 to 9	0	0	0	0	1	0	0	0	1
	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(100.00%)	(0.00%)	(0.00%)	(0.00%)	(100.%)
10 to 14	0	1	1	1	1	3	0	0	7
	(0.00%)	(14.29%)	(14.29%)	(14.29%)	(14.29%)	(42.86%)	(0.00%)	(0.00%)	(100.%)
15 to 19	0	91	118	556	426	352	63	12	1618
	(0.00%)	(5.62%)	(7.29%)	(34.36%)	(26.33%)	(21.76%)	(3.89%)	(0.74%)	(100.%)
20 to 24	0	101	143	652	444	397	34	19	1790
	(0.00%)	(5.64%)	(7.99%)	(36.42%)	(24.80%)	(22.18%)	(1.90%)	(1.06%)	(100.%)
25 to 34	0	131	194	937	640	403	52	24	2381
	(0.00%)	(5.50%)	(8.15%)	(39.35%)	(26.88%)	(16.93%)	(2.18%)	(1.01%)	(100.%)
35 to 44	0	112	163	886	497	278	45	29	2010
	(0.00%)	(5.57%)	(8.11%)	(44.08%)	(24.73%)	(13.83%)	(2.24%)	(1.44%)	(100.%)
45 to 54	0	71	102	471	320	165	24	11	1164
	(0.00%)	(6.10%)	(8.76%)	(40.46%)	(27.49%)	(14.18%)	(2.06%)	(0.95%)	(100.%)
55 to 64	0	38	45	200	211	51	12	7	564
	(0.00%)	(6.74%)	(7.98%)	(35.46%)	(37.41%)	(9.04%)	(2.13%)	(1.24%)	(100.%)
65 to 74	0	29	27	154	164	57	1	6	438
	(0.00%)	(6.62%)	(6.16%)	(35.16%)	(37.44%)	(13.01%)	(0.23%)	(1.37%)	(100.%)
75 to 84	0	22	18	130	183	43	0	5	401
	(0.00%)	(5.49%)	(4.49%)	(32.42%)	(45.64%)	(10.72%)	(0.00%)	(1.25%)	(100.%)
85 and older	0	13	11	25	31	11	0	0	91
	(0.00%)	(14.29%)	(12.09%)	(27.47%)	(34.07%)	(12.09%)	(0.00%)	(0.00%)	(100.%)
Fault Not Assigned	2	62	93	434	319	174	20	78	1182
	(0.17%)	(5.25%)	(7.87%)	(36.72%)	(26.99%)	(14.72%)	(1.69%)	(6.60%)	(100.%)
Total	2	704	1002	4752	3355	2010	264	203	12292
	(0.02%)	(5.73%)	(8.15%)	(38.66%)	(27.29%)	(16.35%)	(2.15%)	(1.65%)	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 3-3
Number of Motor Vehicle Occupant Crashes in the County of San Diego
by Age of Party at Fault and First Weather Condition
July 1, 1998 to June 30, 1999

Age of Party at Fault	First Weather Condition								Total
	Not Stated	Clear	Cloudy	Raining	Snowing	Fog	Other	Wind	
Not Stated	7 (1.09%)*	525 (81.52%)	81 (12.58%)	29 (4.50%)	0 (0.00%)	1 (0.16%)	1 (0.16%)	0 (0.00%)	644 (100.%)
1 to 4	0 (0.00%)	1 (100.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (100.%)
5 to 9	0 (0.00%)	1 (100.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (100.%)
10 to 14	0 (0.00%)	5 (71.43%)	1 (14.29%)	1 (14.29%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	7 (100.%)
15 to 19	2 (0.12%)	1222 (75.53%)	287 (17.74%)	95 (5.87%)	3 (0.19%)	5 (0.31%)	4 (0.25%)	0 (0.00%)	1618 (100.%)
20 to 24	3 (0.17%)	1317 (73.58%)	360 (20.11%)	89 (4.97%)	3 (0.17%)	11 (0.61%)	6 (0.34%)	1 (0.06%)	1790 (100.%)
25 to 34	0 (0.00%)	1783 (74.88%)	430 (18.06%)	138 (5.80%)	5 (0.21%)	15 (0.63%)	9 (0.38%)	1 (0.04%)	2381 (100.%)
35 to 44	3 (0.15%)	1532 (76.22%)	347 (17.26%)	113 (5.62%)	3 (0.15%)	10 (0.50%)	2 (0.10%)	0 (0.00%)	2010 (100.%)
45 to 54	2 (0.17%)	869 (74.66%)	215 (18.47%)	67 (5.76%)	4 (0.34%)	5 (0.43%)	2 (0.17%)	0 (0.00%)	1164 (100.%)
55 to 64	1 (0.18%)	451 (79.96%)	87 (15.43%)	21 (3.72%)	0 (0.00%)	0 (0.00%)	4 (0.71%)	0 (0.00%)	564 (100.%)
65 to 74	0 (0.00%)	340 (77.63%)	63 (14.38%)	27 (6.16%)	3 (0.68%)	2 (0.46%)	3 (0.68%)	0 (0.00%)	438 (100.%)
75 to 84	0 (0.00%)	334 (83.29%)	54 (13.47%)	11 (2.74%)	0 (0.00%)	2 (0.50%)	0 (0.00%)	0 (0.00%)	401 (100.%)
85 and older	0 (0.00%)	76 (83.52%)	12 (13.19%)	3 (3.30%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	91 (100.%)
Fault Not Assigned	72 (6.09%)	892 (75.47%)	158 (13.37%)	50 (4.23%)	1 (0.08%)	2 (0.17%)	7 (0.59%)	0 (0.00%)	1182 (100.%)
Total	90 (0.73%)	9348 (76.05%)	2095 (17.04%)	644 (5.24%)	22 (0.18%)	53 (0.43%)	38 (0.31%)	2 (0.02%)	12292 (100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 3-4
Number of Motor Vehicle Occupant Crashes in the County of San Diego
by Age of Party at Fault and Time of Week
July 1, 1998 to June 30, 1999

Age of Party at Fault	Time of Week										Total	
	Not Stated		Weekday-Daytime		Weekday-Nighttime		Weekend-Daytime		Weekend-Nighttime			
Not Stated	0	(0.00%)*	281	(43.63%)	101	(15.68%)	104	(16.15%)	158	(24.53%)	644	(100.%)
1 to 4	0	(0.00%)	0	(0.00%)	0	(0.00%)	0	(0.00%)	1	(100.00%)	1	(100.%)
5 to 9	0	(0.00%)	0	(0.00%)	1	(100.00%)	0	(0.00%)	0	(0.00%)	1	(100.%)
10 to 14	0	(0.00%)	3	(42.86%)	1	(14.29%)	0	(0.00%)	3	(42.86%)	7	(100.%)
15 to 19	0	(0.00%)	788	(48.70%)	262	(16.19%)	253	(15.64%)	315	(19.47%)	1618	(100.%)
20 to 24	1	(0.06%)	851	(47.54%)	303	(16.93%)	262	(14.64%)	373	(20.84%)	1790	(100.%)
25 to 34	1	(0.04%)	1226	(51.49%)	375	(15.75%)	382	(16.04%)	397	(16.67%)	2381	(100.%)
35 to 44	1	(0.05%)	1141	(56.77%)	266	(13.23%)	348	(17.31%)	254	(12.64%)	2010	(100.%)
45 to 54	0	(0.00%)	714	(61.34%)	135	(11.60%)	201	(17.27%)	114	(9.79%)	1164	(100.%)
55 to 64	1	(0.18%)	351	(62.23%)	75	(13.30%)	88	(15.60%)	49	(8.69%)	564	(100.%)
65 to 74	0	(0.00%)	300	(68.49%)	23	(5.25%)	78	(17.81%)	37	(8.45%)	438	(100.%)
75 to 84	0	(0.00%)	287	(71.57%)	25	(6.23%)	70	(17.46%)	19	(4.74%)	401	(100.%)
85 and older	0	(0.00%)	58	(63.74%)	10	(10.99%)	17	(18.68%)	6	(6.59%)	91	(100.%)
Fault Not Assigned	0	(0.00%)	652	(55.16%)	156	(13.20%)	202	(17.09%)	172	(14.55%)	1182	(100.%)
Total	4	(0.03%)	6652	(54.12%)	1733	(14.10%)	2005	(16.31%)	1898	(15.44%)	12292	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

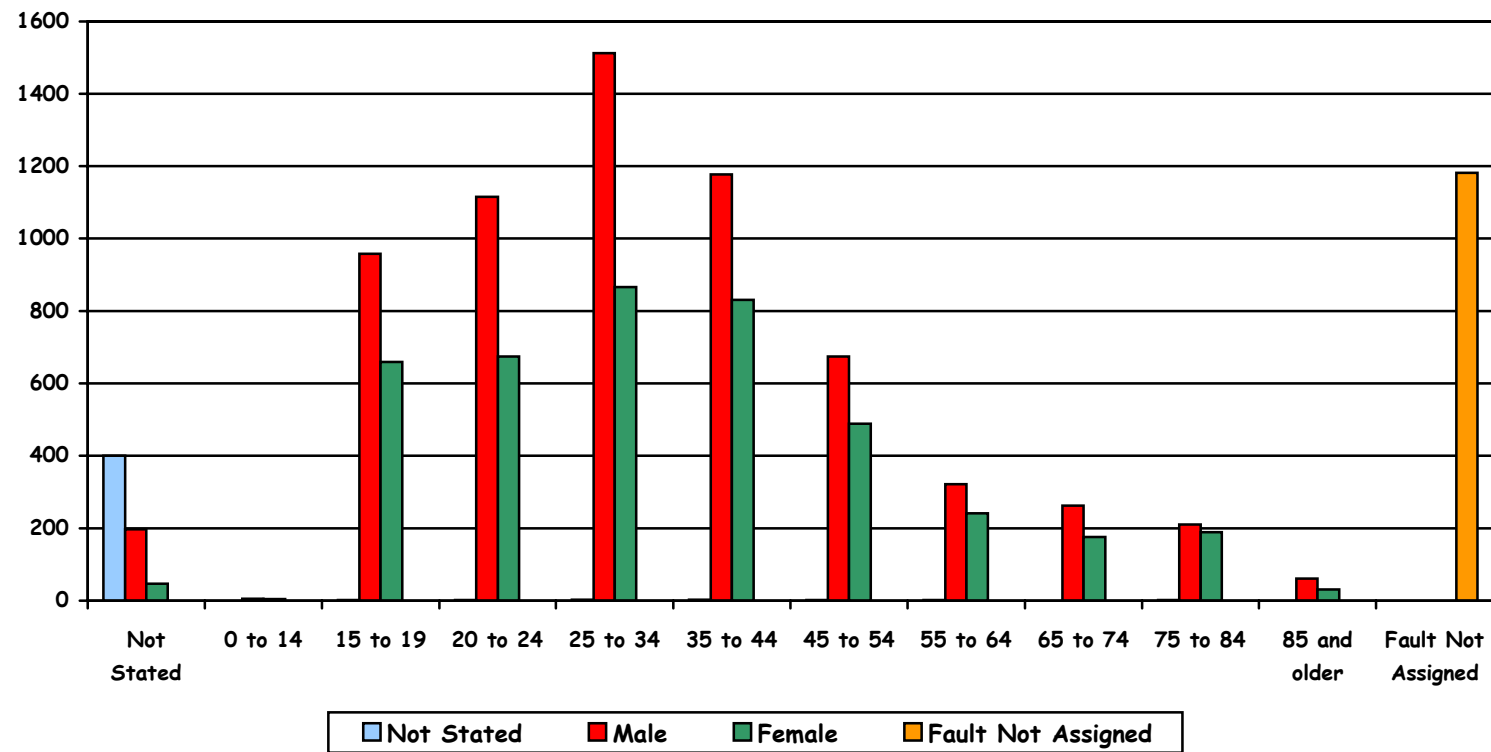
Table 3-5
Number of Motor Vehicle Occupant Crashes in the County of San Diego
by Age of Party at Fault and First Road Condition
July 1, 1998 to June 30, 1999

Age of Party at Fault	First Road Condition									Total
	Not Stated	Holes, Deep Ruts	Loose Material on Roadway	Obstruction on Roadway	Construction or Repair Zone	Reduced Roadway Width	Flooded	Other	No Unusual Condition	
Not Stated	9	0	1	2	17	0	0	0	615	644
	(1.40%)*	(0.00%)	(0.16%)	(0.31%)	(2.64%)	(0.00%)	(0.00%)	(0.00%)	(95.50%)	(100.%)
1 to 4	0	0	0	0	0	0	0	0	1	1
	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(100.00%)	(100.%)
5 to 9	0	0	0	0	0	0	0	0	1	1
	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(100.00%)	(100.%)
10 to 14	0	0	0	0	0	0	0	0	7	7
	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(100.00%)	(100.%)
15 to 19	14	3	6	4	33	1	1	14	1542	1618
	(0.87%)	(0.19%)	(0.37%)	(0.25%)	(2.04%)	(0.06%)	(0.06%)	(0.87%)	(95.30%)	(100.%)
20 to 24	14	2	7	14	30	3	1	18	1701	1790
	(0.78%)	(0.11%)	(0.39%)	(0.78%)	(1.68%)	(0.17%)	(0.06%)	(1.01%)	(95.03%)	(100.%)
25 to 34	19	4	8	17	43	3	4	13	2270	2381
	(0.80%)	(0.17%)	(0.34%)	(0.71%)	(1.81%)	(0.13%)	(0.17%)	(0.55%)	(95.34%)	(100.%)
35 to 44	21	3	6	13	39	0	1	19	1908	2010
	(1.04%)	(0.15%)	(0.30%)	(0.65%)	(1.94%)	(0.00%)	(0.05%)	(0.95%)	(94.93%)	(100.%)
45 to 54	6	2	2	4	24	3	1	5	1117	1164
	(0.52%)	(0.17%)	(0.17%)	(0.34%)	(2.06%)	(0.26%)	(0.09%)	(0.43%)	(95.96%)	(100.%)
55 to 64	8	1	3	5	22	0	1	8	516	564
	(1.42%)	(0.18%)	(0.53%)	(0.89%)	(3.90%)	(0.00%)	(0.18%)	(1.42%)	(91.49%)	(100.%)
65 to 74	6	1	1	1	5	0	0	0	424	438
	(1.37%)	(0.23%)	(0.23%)	(0.23%)	(1.14%)	(0.00%)	(0.00%)	(0.00%)	(96.80%)	(100.%)
75 to 84	5	1	2	0	10	0	0	1	382	401
	(1.25%)	(0.25%)	(0.50%)	(0.00%)	(2.49%)	(0.00%)	(0.00%)	(0.25%)	(95.26%)	(100.%)
85 and older	0	0	0	0	2	0	0	0	89	91
	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(2.20%)	(0.00%)	(0.00%)	(0.00%)	(97.80%)	(100.%)
Fault Not Assigned	103	5	8	8	23	3	0	19	1013	1182
	(8.71%)	(0.42%)	(0.68%)	(0.68%)	(1.95%)	(0.25%)	(0.00%)	(1.61%)	(85.70%)	(100.%)
Total	205	22	44	68	248	13	9	97	11586	12292
	(1.67%)	(0.18%)	(0.36%)	(0.55%)	(2.02%)	(0.11%)	(0.07%)	(0.79%)	(94.26%)	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Figure 3.3
Age and Gender of Party at Fault in Motor Vehicle Occupant Crashes
County of San Diego

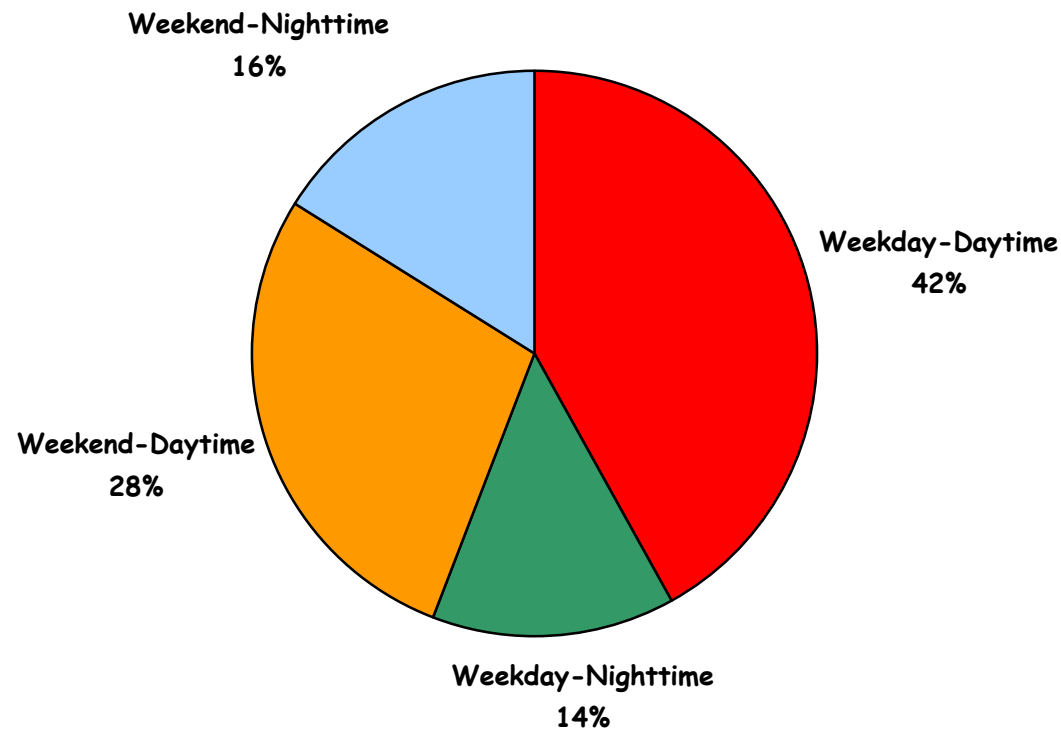


Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

4: MOTORCYCLE VICTIMS

Table 4-1 Leading Causes of Motorcycle Injuries by Age Group of Victim County of San Diego							
Age Group of Victim	Rank of Violation Category						Total Number of Victims
	1	2	3	4	5	6	
0-4							0
5-9	*						2
10-14	Automobile Right-of-Way 4	Unsafe Speed 2	*				7
15-19	Unsafe Speed 12	Improper Turning 10	Automobile Right-of-Way 4	DUI Alcohol/Drugs 2†	Wrong Side of Road 2†	*	35
20-24	Unsafe Speed 42	Automobile Right-of-Way 20†	Improper Turning 20†	DUI Alcohol/Drugs 7	Wrong Side of Road 4	**	118
25-34	Unsafe Speed 55	Automobile Right-of-Way 36	Improper Turning 26	DUI Alcohol/Drugs 17	Wrong Side of Road 12	Other Than Driver 8	192
35-44	Unsafe Speed 38	Automobile Right-of-Way 37	DUI Alcohol/Drugs 18	Improper Turning 17	Wrong Side of Road 13	Unsafe Lane Change 8	164
45-54	Unsafe Speed 24	Automobile Right-of-Way 21	Other Than Driver 10	DUI Alcohol/Drugs 9†	Wrong Side of Road 9†	**	105
55-64	Automobile Right-of-Way 8	Unsafe Speed 7	Wrong Side of Road 5	Improper Turning 4†	DUI Alcohol/Drugs 4†	Other Than Driver 4†	38
65-74	Wrong Side of Road 2	*					6
75-84	*						2
85+	*						0
All Ages	Unsafe Speed 182	Automobile Right-of-Way 131	Improper Turning 87	DUI Alcohol/Drugs 57	Wrong Side of Road 47	Other Than Driver 33	675
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99. * Violation categories leading to a single victim were not ranked. ** Multiple violation categories with the same number of victims were not listed due to space limitations. † Tie							

Figure 4.1
Motorcycle Crash Victims by Time of Week
County of San Diego



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 4-2
Number of Motorcycle Victims Killed or Injured
in Motorcycle Crashes in the County of San Diego
by Age of Victim and Time of Week
July 1, 1998 to June 30, 1999

Age of Victim	Time of Week								Total	
	Weekday-Daytime		Weekday-Nighttime		Weekend-Daytime		Weekend-Nighttime			
5 to 9	2	(100.00%)*	0	(0.00%)	0	(0.00%)	0	(0.00%)	2	(100.%)
10 to 14	5	(71.43%)	2	(28.57%)	0	(0.00%)	0	(0.00%)	7	(100.%)
15 to 19	18	(51.43%)	4	(11.43%)	3	(8.57%)	10	(28.57%)	35	(100.%)
20 to 24	55	(46.61%)	18	(15.25%)	26	(22.03%)	19	(16.10%)	118	(100.%)
25 to 34	85	(44.27%)	32	(16.67%)	48	(25.00%)	27	(14.06%)	192	(100.%)
35 to 44	59	(35.98%)	21	(12.80%)	54	(32.93%)	30	(18.29%)	164	(100.%)
45 to 54	39	(37.14%)	12	(11.43%)	37	(35.24%)	17	(16.19%)	105	(100.%)
55 to 64	13	(34.21%)	2	(5.26%)	18	(47.37%)	5	(13.16%)	38	(100.%)
65 to 74	3	(50.00%)	0	(0.00%)	2	(33.33%)	1	(16.67%)	6	(100.%)
75 to 84	0	(0.00%)	0	(0.00%)	2	(100.00%)	0	(0.00%)	2	(100.%)
Not stated	4	(66.67%)	2	(33.33%)	0	(0.00%)	0	(0.00%)	6	(100.%)
Total	283	(41.93%)	93	(13.78%)	190	(28.15%)	109	(16.15%)	675	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

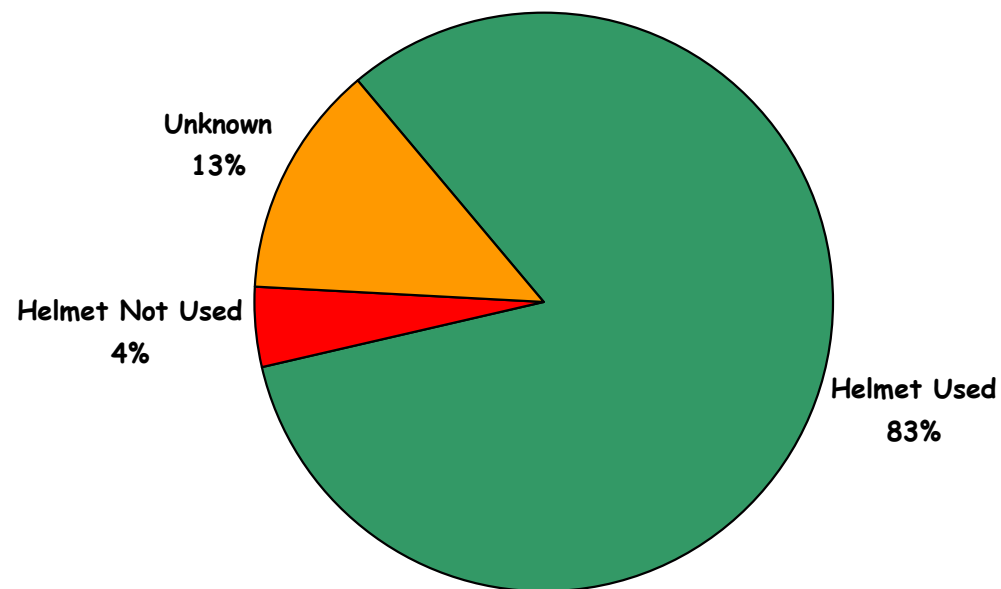
Table 4-3
Number of Motorcycle Victims Killed or Injured in Motorcycle Crashes
in the County of San Diego
by Type of Collision and Severity of Injury
July 1, 1998 to June 30, 1999

Type of Collision	Severity of Injury								Total	
	Killed		Severe Injury		Other Visible Injury		Complaint of Pain			
Head-on	2	(7.41%)*	6	(22.22%)	11	(40.74%)	8	(29.63%)	27	(100.%)
Sideswipe	2	(2.82%)	10	(14.08%)	39	(54.93%)	20	(28.17%)	71	(100.%)
Rear-end	0	(0.00%)	10	(10.64%)	38	(40.43%)	46	(48.94%)	94	(100.%)
Broadside	1	(0.68%)	32	(21.62%)	70	(47.30%)	45	(30.41%)	148	(100.%)
Hit Object	7	(5.79%)	28	(23.14%)	56	(46.28%)	30	(24.79%)	121	(100.%)
Overtuned	3	(1.74%)	23	(13.37%)	113	(65.70%)	33	(19.19%)	172	(100.%)
Other	0	(0.00%)	2	(4.76%)	32	(76.19%)	8	(19.05%)	42	(100.%)
Total	15	(2.22%)	111	(16.44%)	359	(53.19%)	190	(28.15%)	675	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Figure 4.2
Helmet Use Among Motorcycle Crash Victims
County of San Diego



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 4-4
Number of Motorcycle Victims Killed or Injured in Motorcycle Crashes
in the County of San Diego
by Age of Victim and Helmet Use
July 1, 1998 to June 30, 1999

Age of Victim	Helmet Use						Total	
	Helmet Used		Helmet Not Used		Unknown			
5 to 9	2	(100.00%)*	0	(0.00%)	0	(0.00%)	2	(100.%)
10 to 14	6	(85.71%)	0	(0.00%)	1	(14.29%)	7	(100.%)
15 to 19	27	(77.14%)	3	(8.57%)	5	(14.29%)	35	(100.%)
20 to 24	95	(80.51%)	5	(4.24%)	18	(15.25%)	118	(100.%)
25 to 34	154	(80.21%)	10	(5.21%)	28	(14.58%)	192	(100.%)
35 to 44	139	(84.76%)	8	(4.88%)	17	(10.37%)	164	(100.%)
45 to 54	91	(86.67%)	2	(1.90%)	12	(11.43%)	105	(100.%)
55 to 64	32	(84.21%)	2	(5.26%)	4	(10.53%)	38	(100.%)
65 to 74	5	(83.33%)	0	(0.00%)	1	(16.67%)	6	(100.%)
75 to 84	2	(100.00%)	0	(0.00%)	0	(0.00%)	2	(100.%)
Not stated	4	(66.67%)	0	(0.00%)	2	(33.33%)	6	(100.%)
Total	557	(82.52%)	30	(4.44%)	88	(13.04%)	675	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

5: MOTORCYCLE CRASHES

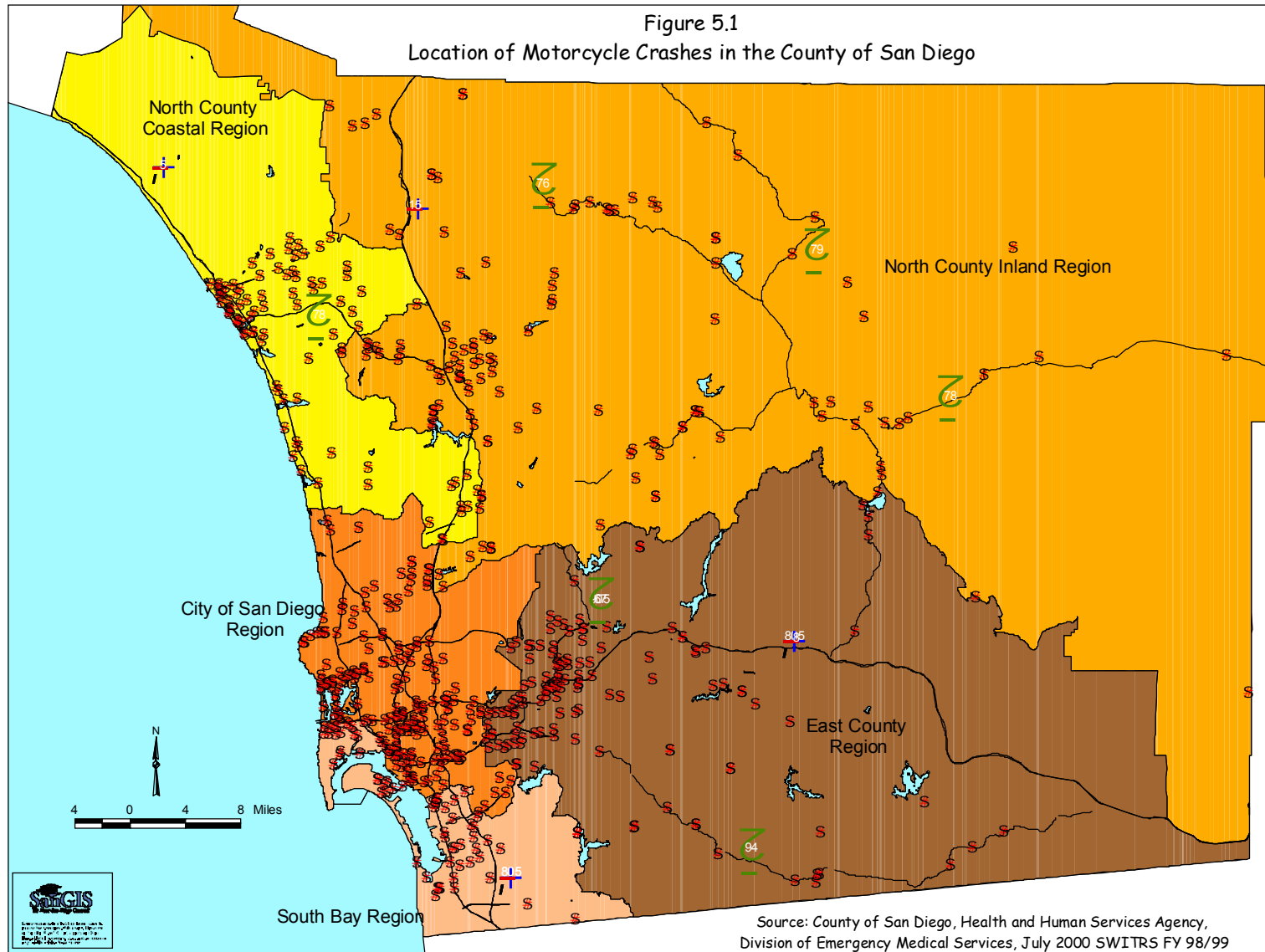


Table 5-1
Leading Violation Categories in Motorcycle Crashes by Type of Party at Fault
County of San Diego

Type of Party at Fault	Rank of Violation Category						Total Number of Crashes
	1	2	3	4	5	6	
Motorcycle at Fault	Unsafe Speed 145	Improper Turning 40	Wrong Side of Road 38	DUI Alcohol/Drugs 36	Automobile Right-of-Way 17	Other Hazardous Viol. 11	324
Other Party at Fault	Automobile Right-of-Way 97	Improper Turning 32	Unsafe Speed 21	Unsafe Lane Change 15	DUI Alcohol/Drugs 13†	Traffic Signals & Signs 13†	219
Fault Not Assigned	Other Than Driver 29	Improper Turning 7	Unsafe Speed 6	Automobile Right-of-Way 4	DUI Alcohol/Drugs 3	**	81
All Crashes	Unsafe Speed 172	Automobile Right-of-Way 118	Improper Turning 79	DUI Alcohol/Drugs 52	Wrong Side of Road 43	Other Than Driver 29	624

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

* Violation categories leading to a single crash were not ranked.

** Multiple violation categories with the same number of victims were not listed due to space limitations.

† Tie

Table 5-2
Number of Motorcycle Crashes in the County of San Diego
by Type of Collision and Type of Party at Fault
July 1, 1998 to June 30, 1999

Type of Collision	Fault in Motorcycle Crash						Total	
	Motorcycle at Fault		Other Party at Fault		Fault Not Assigned			
Head-on	13	(56.52%)*	8	(34.78%)	2	(8.70%)	23	(100.%)
Sideswipe	21	(30.88%)	38	(55.88%)	9	(13.24%)	68	(100.%)
Rear-end	32	(34.78%)	51	(55.43%)	9	(9.78%)	92	(100.%)
Broadside	34	(25.37%)	90	(67.16%)	10	(7.46%)	134	(100.%)
Hit Object	93	(81.58%)	5	(4.39%)	16	(14.04%)	114	(100.%)
Overturned	120	(77.92%)	16	(10.39%)	18	(11.69%)	154	(100.%)
Other	11	(28.21%)	11	(28.21%)	17	(43.59%)	39	(100.%)
Total	324	(51.92%)	219	(35.10%)	81	(12.98%)	624	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 5-3
Number of Motorcycle Crashes in the County of San Diego
by First Weather Condition and Type of Party at Fault
July 1, 1998 to June 30, 1999

First Weather Condition	Fault in Motorcycle Crash						Total	
	Motorcycle at Fault		Other Party at Fault		Fault Not Assigned			
Clear	288	(53.33%)*	187	(34.63%)	65	(12.04%)	540	(100.%)
Cloudy	33	(44.59%)	30	(40.54%)	11	(14.86%)	74	(100.%)
Raining	1	(16.67%)	1	(16.67%)	4	(66.67%)	6	(100.%)
Fog	1	(100.00%)	0	(0.00%)	0	(0.00%)	1	(100.%)
Other	1	(33.33%)	1	(33.33%)	1	(33.33%)	3	(100.%)
Total	324	(51.92%)	219	(35.10%)	81	(12.98%)	624	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 5-4
Number of Motorcycle Crashes in the County of San Diego,
by Time of Week and Type of Party at Fault
July 1, 1998 to June 30, 1999

Time of Week	Fault in Motorcycle Crash						Total	
	Motorcycle at Fault		Other Party at Fault		Fault Not Assigned			
Weekday-Daytime	127	(46.69%)*	108	(39.71%)	37	(13.60%)	272	(100.%)
Weekday-Nighttime	46	(54.12%)	28	(32.94%)	11	(12.94%)	85	(100.%)
Weekend-Daytime	99	(57.89%)	52	(30.41%)	20	(11.70%)	171	(100.%)
Weekend-Nighttime	52	(54.17%)	31	(32.29%)	13	(13.54%)	96	(100.%)
Total	324	(51.92%)	219	(35.10%)	81	(12.98%)	624	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 5-5
Number of Motorcycle Crashes in the County of San Diego
by First Road Condition and Type of Party at Fault
July 1, 1998 to June 30, 1999

First Road Condition	Fault in Motorcycle Crash						Total	
	Motorcycle at Fault		Other Party at Fault		Fault Not Assigned			
Not Stated	1	(25.00%)*	1	(25.00%)	2	(50.00%)	4	(100.%)
Holes, Deep Ruts	1	(33.33%)	0	(0.00%)	2	(66.67%)	3	(100.%)
Loose Material on Roadway	3	(50.00%)	0	(0.00%)	3	(50.00%)	6	(100.%)
Obstruction on Roadway	0	(0.00%)	3	(60.00%)	2	(40.00%)	5	(100.%)
Construction or Repair Zone	4	(66.67%)	2	(33.33%)	0	(0.00%)	6	(100.%)
Other	3	(33.33%)	1	(11.11%)	5	(55.56%)	9	(100.%)
No Unusual Condition	312	(52.79%)	212	(35.87%)	67	(11.34%)	591	(100.%)
Total	324	(51.92%)	219	(35.10%)	81	(12.98%)	624	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 5-6
Number of Motorcycle Crashes in the County of San Diego
by Age and Gender of Party at Fault and Type of Party at Fault
July 1, 1998 to June 30, 1999

Age of Party at Fault	Fault in Motorcycle Crash†					
	Motorcycle at Fault			Other Party at Fault		
	Gender of Party at Fault††			Gender of Party at Fault††		
	Male		Female	Male		Female
Not Stated	4	(1.23%)*	0 (0.00%)	5	(2.49%)	2 (1.00%)
5 to 9	1	(0.31%)	0 (0.00%)	0	(0.00%)	0 (0.00%)
10 to 14	3	(0.93%)	0 (0.00%)	0	(0.00%)	0 (0.00%)
15 to 19	14	(4.32%)	0 (0.00%)	12	(5.97%)	9 (4.48%)
20 to 24	70	(21.60%)	2 (0.62%)	20	(9.95%)	14 (6.97%)
25 to 34	85	(26.23%)	4 (1.23%)	24	(11.94%)	19 (9.45%)
35 to 44	71	(21.91%)	6 (1.85%)	22	(10.95%)	14 (6.97%)
45 to 54	41	(12.65%)	1 (0.31%)	17	(8.46%)	7 (3.48%)
55 to 64	16	(4.94%)	1 (0.31%)	11	(5.47%)	4 (1.99%)
65 to 74	4	(1.23%)	0 (0.00%)	5	(2.49%)	6 (2.99%)
75 to 84	1	(0.31%)	0 (0.00%)	4	(1.99%)	5 (2.49%)
85 and older	0	(0.00%)	0 (0.00%)	1	(0.50%)	0 (0.00%)
Total	310	(95.68%)	14 (4.32%)	121	(60.20%)	80 (39.80%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are age and gender percents.

†Fault was not assigned in 81 crashes.

††Gender of party at fault was not stated for 18 other parties.

6: PEDALCYCLE VICTIMS

Table 6-1
Leading Causes of Pedalcycle Injuries by Age Group of Victim
County of San Diego

Age Group of Victim	Rank of Violation Category						Total Number of Victims
	1	2	3	4	5	6	
0-4	*						2
5-9	Automobile Right-of-Way 30	Improper Turning 10	Traffic Signals & Signs 8	Wrong Side of Road 7	**		67
10-14	Automobile Right-of-Way 46	Wrong Side of Road 36	Improper Turning 22	Traffic Signals & Signs 17	Other Hazardous Viol. 9	**	166
15-19	Wrong Side of Road 16	Automobile Right-of-Way 13	Traffic Signals & Signs 12	Improper Turning 11	Other Hazardous Viol. 6	Unsafe Speed 4	83
20-24	Automobile Right-of-Way 22	Other Hazardous Viol. 10	Wrong Side of Road 9	Improper Turning 6	DUI Alcohol/Drugs 4	**	68
25-34	Automobile Right-of-Way 30	Improper Turning 29	DUI Alcohol/Drugs 12	Traffic Signals & Signs 11	Other Hazardous Viol. 10	Wrong Side of Road 9	127
35-44	Improper Turning 32	Automobile Right-of-Way 30	Other Hazardous Viol. 12†	DUI Alcohol/Drugs 12†	Wrong Side of Road 8†	Traffic Signals & Signs 8†	132
45-54	Improper Turning 19	Automobile Right-of-Way 15	DUI Alcohol/Drugs 8	Other Hazardous Viol. 7	Wrong Side of Road 6†	Unsafe Speed 6†	74
55-64	Improper Turning 8	Other Hazardous Viol. 4	Wrong Side of Road 3	Automobile Right-of-Way 2†	Unsafe Speed 2†	*	24
65-74	Improper Turning 5	Automobile Right-of-Way 3	*				13
75-84	Automobile Right-of-Way 2	*					4
85+							0
All Ages	Automobile Right-of-Way 195	Improper Turning 143	Wrong Side of Road 96	Traffic Signals & Signs 64	Other Hazardous Viol. 60	DUI Alcohol/Drugs 41	765

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

* Violation categories leading to a single victim were not ranked.

** Multiple violation categories with the same number of victims were not listed due to space limitations.

† Tie

Table 6-2
Number of Pedalcycle Victims Killed or Injured in Pedalcycle Crashes
in the County of San Diego
by Age of Victim and Time of Week
July 1, 1998 to June 30, 1999

Age of Victim	Time of Week								Total	
	Weekday-Daytime		Weekday-Nighttime		Weekend-Daytime		Weekend-Nighttime			
1 to 4	2	(100.00%)*	0	(0.00%)	0	(0.00%)	0	(0.00%)	2	(100.%)
5 to 9	37	(55.22%)	9	(13.43%)	18	(26.87%)	3	(4.48%)	67	(100.%)
10 to 14	114	(68.67%)	10	(6.02%)	32	(19.28%)	10	(6.02%)	166	(100.%)
15 to 19	59	(71.08%)	12	(14.46%)	10	(12.05%)	2	(2.41%)	83	(100.%)
20 to 24	32	(47.06%)	11	(16.18%)	19	(27.94%)	6	(8.82%)	68	(100.%)
25 to 34	73	(57.48%)	18	(14.17%)	22	(17.32%)	14	(11.02%)	127	(100.%)
35 to 44	72	(54.55%)	18	(13.64%)	32	(24.24%)	10	(7.58%)	132	(100.%)
45 to 54	47	(63.51%)	8	(10.81%)	13	(17.57%)	6	(8.11%)	74	(100.%)
55 to 64	15	(62.50%)	0	(0.00%)	7	(29.17%)	2	(8.33%)	24	(100.%)
65 to 74	9	(69.23%)	0	(0.00%)	4	(30.77%)	0	(0.00%)	13	(100.%)
75 to 84	4	(100.00%)	0	(0.00%)	0	(0.00%)	0	(0.00%)	4	(100.%)
Not stated	4	(80.00%)	0	(0.00%)	1	(20.00%)	0	(0.00%)	5	(100.%)
Total	468	(61.18%)	86	(11.24%)	158	(20.65%)	53	(6.93%)	765	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

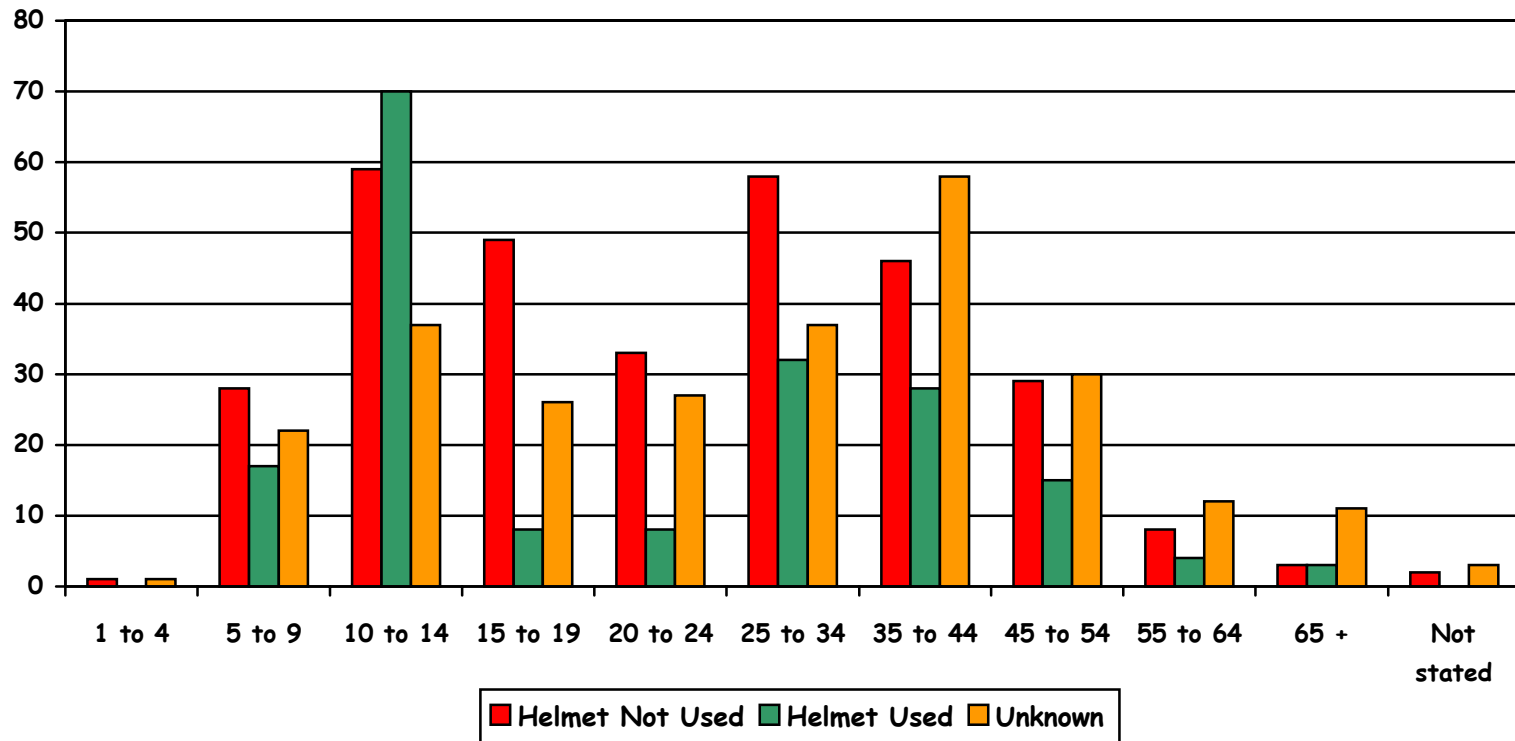
Table 6-3
Number of Pedalcycle Victims Killed or Injured in Pedalcycle Crashes
in the County of San Diego
by Age of Victim and First Weather Condition
July 1, 1998 to June 30, 1999

Age of Victim	First Weather Condition						Total
	Not Stated	Clear	Cloudy	Raining	Fog	Other	
1 to 4	0 (0.00%)*	2 (100.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (100.%)
5 to 9	0 (0.00%)	59 (88.06%)	7 (10.45%)	1 (1.49%)	0 (0.00%)	0 (0.00%)	67 (100.%)
10 to 14	1 (0.60%)	131 (78.92%)	31 (18.67%)	1 (0.60%)	1 (0.60%)	1 (0.60%)	166 (100.%)
15 to 19	0 (0.00%)	70 (84.34%)	13 (15.66%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	83 (100.%)
20 to 24	1 (1.47%)	57 (83.82%)	10 (14.71%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	68 (100.%)
25 to 34	0 (0.00%)	102 (80.31%)	22 (17.32%)	3 (2.36%)	0 (0.00%)	0 (0.00%)	127 (100.%)
35 to 44	3 (2.27%)	108 (81.82%)	19 (14.39%)	2 (1.52%)	0 (0.00%)	0 (0.00%)	132 (100.%)
45 to 54	0 (0.00%)	56 (75.68%)	17 (22.97%)	1 (1.35%)	0 (0.00%)	0 (0.00%)	74 (100.%)
55 to 64	0 (0.00%)	19 (79.17%)	4 (16.67%)	1 (4.17%)	0 (0.00%)	0 (0.00%)	24 (100.%)
65 to 74	0 (0.00%)	12 (92.31%)	1 (7.69%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	13 (100.%)
75 to 84	0 (0.00%)	3 (75.00%)	1 (25.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	4 (100.%)
Not stated	0 (0.00%)	5 (100.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	5 (100.%)
Total	5 (0.65%)	624 (81.57%)	125 (16.34%)	9 (1.18%)	1 (0.13%)	1 (0.13%)	765 (100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Figure 6.1
Helmet Use by Age of Pedalcyclist Crash Victims
County of San Diego



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 6-4
Number of Pedalcycle Victims Killed or Injured in Pedalcycle Crashes
in the County of San Diego
by Helmet Use and Severity of Injury
July 1, 1998 to June 30, 1999

Helmet Use	Severity of Injury								Total	
	Killed		Severe Injury		Other Visible Injury		Complaint of Pain			
Helmet Used	2	(1.08%)*	13	(7.03%)	126	(68.11%)	44	(23.78%)	185	(100.%)
Helmet Not Used	4	(1.27%)	23	(7.28%)	192	(60.76%)	97	(30.70%)	316	(100.%)
Unknown	0	(0.00%)	12	(4.55%)	154	(58.33%)	98	(37.12%)	264	(100.%)
Total	6	(0.78%)	48	(6.27%)	472	(61.7%)	239	(31.24%)	765	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

7: PEDALCYCLE CRASHES

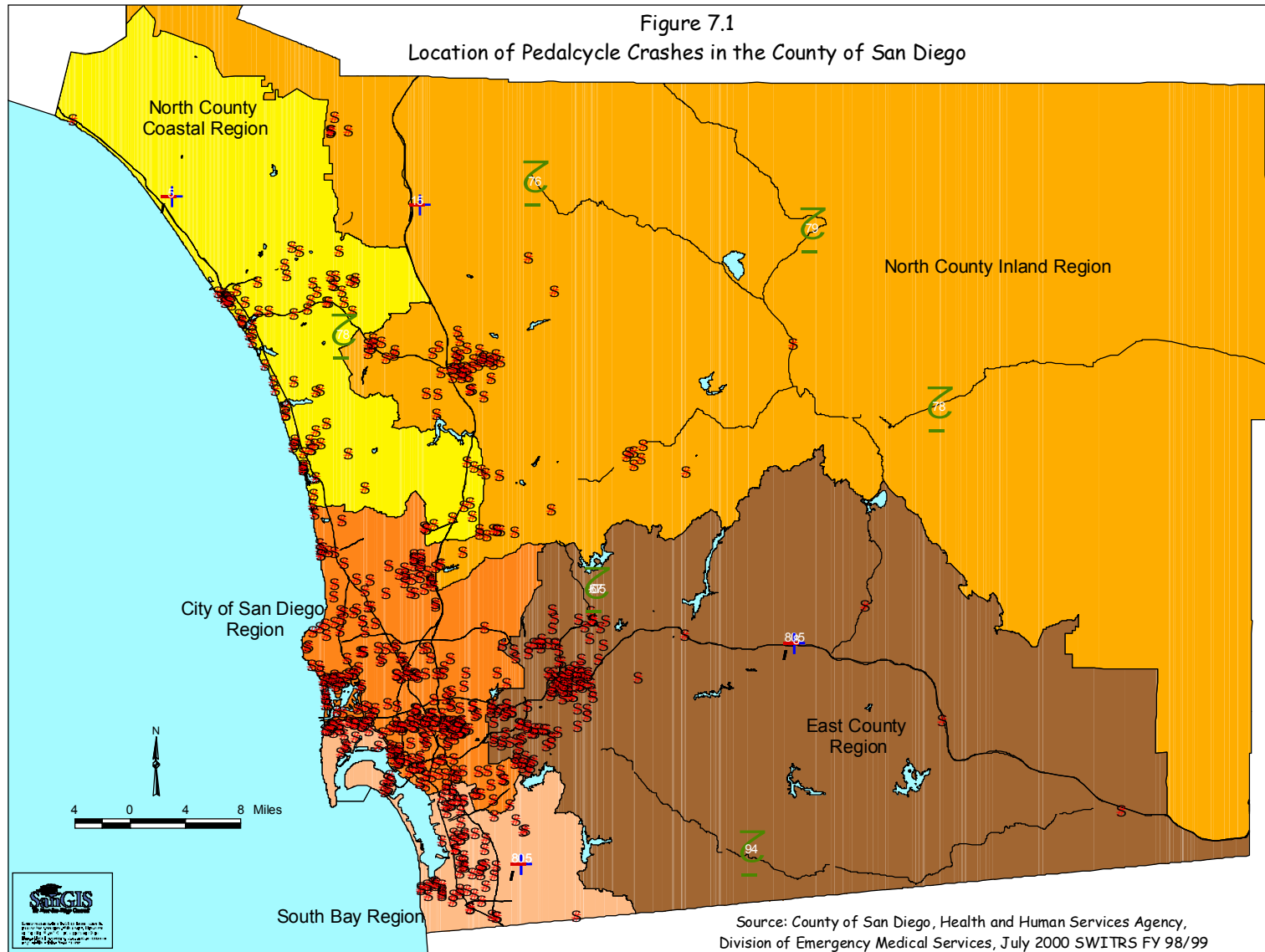


Table 7-1
Leading Violation Categories in Pedalcycle Crashes by Type of Party at Fault
County of San Diego

Type of Party at Fault	Rank of Violation Category						Total Number of Crashes
	1	2	3	4	5	6	
Pedalcycle at Fault	Automobile Right-of-Way 93	Wrong Side of Road 84	Improper Turning 68	Traffic Signals & Signs 45	Other Hazardous Viol. 39	DUI Alcohol/Drugs 23	417
Other Party at Fault	Automobile Right-of-Way 90	Improper Turning 63	Other Hazardous Viol. 18	DUI Alcohol/Drugs 15	Traffic Signals & Signs 14	Pedestrian Right-of-Way 10	249
Fault Not Assigned	Automobile Right-of-Way 11	Improper Turning 9	Traffic Signals & Signs 5†	Unsafe Speed 5†	Wrong Side of Road 3†	Other Hazardous Viol. 3†	95
All Crashes	Automobile Right-of-Way 194	Improper Turning 140	Wrong Side of Road 93	Traffic Signals & Signs 64	Other Hazardous Viol. 60	DUI Alcohol/Drugs 39	761

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

† Tie

Table 7-2
Number of Pedalcycle Crashes in the County of San Diego
by First Weather Condition and Type of Party at Fault
July 1, 1998 to June 30, 1999

First Weather Condition	Fault in Pedalcycle Crash						Total	
	Pedalcycle at Fault		Other Party at Fault		Fault Not Assigned			
Not Stated	2	(40.00%)*	0	(0.00%)	3	(60.00%)	5	(100.%)
Clear	334	(53.87%)	210	(33.87%)	76	(12.26%)	620	(100.%)
Cloudy	74	(59.20%)	35	(28.00%)	16	(12.80%)	125	(100.%)
Raining	6	(66.67%)	3	(33.33%)	0	(0.00%)	9	(100.%)
Fog	1	(100.00%)	0	(0.00%)	0	(0.00%)	1	(100.%)
Other	0	(0.00%)	1	(100.00%)	0	(0.00%)	1	(100.%)
Total	417	(54.80%)	249	(32.72%)	95	(12.48%)	761	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 7-3
Number of Pedalcycle Crashes in the County of San Diego
by Time of Week and Type of Party at Fault
July 1, 1998 to June 30, 1999

Time of Week	Fault in Pedalcycle Crash						Total	
	Pedalcycle at Fault		Other Party at Fault		Fault Not Assigned			
Weekday-Daytime	251	(53.75%)*	152	(32.55%)	64	(13.70%)	467	(100.%)
Weekday-Nighttime	55	(64.71%)	23	(27.06%)	7	(8.24%)	85	(100.%)
Weekend-Daytime	87	(55.41%)	57	(36.31%)	13	(8.28%)	157	(100.%)
Weekend-Nighttime	24	(46.15%)	17	(32.69%)	11	(21.15%)	52	(100.%)
Total	417	(54.80%)	249	(32.72%)	95	(12.48%)	761	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 7-4
Number of Pedalcycle Crashes in the County of San Diego
by First Road Condition and Type of Party at Fault
July 1, 1998 to June 30, 1999

First Road Condition	Fault in Pedalcycle Crash						Total	
	Pedalcycle at Fault		Other Party at Fault		Fault Not Assigned			
Not Stated	6	(46.15%)*	0	(0.00%)	7	(53.85%)	13	(100.%)
Holes, Deep Ruts	4	(80.00%)	1	(20.00%)	0	(0.00%)	5	(100.%)
Loose Material on Roadway	2	(100.00%)	0	(0.00%)	0	(0.00%)	2	(100.%)
Construction or Repair Zone	5	(71.43%)	1	(14.29%)	1	(14.29%)	7	(100.%)
Reduced Roadway Width	1	(20.00%)	3	(60.00%)	1	(20.00%)	5	(100.%)
Other	0	(0.00%)	5	(83.33%)	1	(16.67%)	6	(100.%)
No Unusual Condition	399	(55.19%)	239	(33.06%)	85	(11.76%)	723	(100.%)
Total	417	(54.80%)	249	(32.72%)	95	(12.48%)	761	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 7-5
Number of Pedalcycle Crashes in the County of San Diego
by Age and Gender of Party at Fault and Type of Party at Fault
July 1, 1998 to June 30, 1999

Age of Party at Fault	Fault in Pedalcycle Crash†					
	Pedalcycle at Fault			Other Party at Fault		
	Gender of Party at Fault††			Gender of Party at Fault††		
	Male		Female	Male		Female
Not Stated	6	(1.45%)*	0 (0.00%)	5	(2.42%)	3 (1.45%)
5 to 9	40	(9.64%)	14 (3.37%)	0	(0.00%)	0 (0.00%)
10 to 14	88	(21.20%)	18 (4.34%)	1	(0.48%)	1 (0.48%)
15 to 19	46	(11.08%)	8 (1.93%)	14	(6.76%)	9 (4.35%)
20 to 24	36	(8.67%)	5 (1.20%)	11	(5.31%)	6 (2.90%)
25 to 34	43	(10.36%)	10 (2.41%)	28	(13.53%)	15 (7.25%)
35 to 44	40	(9.64%)	7 (1.69%)	27	(13.04%)	22 (10.63%)
45 to 54	26	(6.27%)	5 (1.20%)	14	(6.76%)	8 (3.86%)
55 to 64	11	(2.65%)	2 (0.48%)	14	(6.76%)	8 (3.86%)
65 to 74	9	(2.17%)	0 (0.00%)	5	(2.42%)	6 (2.90%)
75 to 84	1	(0.24%)	0 (0.00%)	5	(2.42%)	4 (1.93%)
85 and older	0	(0.00%)	0 (0.00%)	0	(0.00%)	1 (0.48%)
Total	346	(83.37%)	69 (16.63%)	124	(59.90%)	83 (40.10%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are age and gender percents.

†Fault was not assigned in 95 crashes.

††Gender of party at fault was not stated for 2 pedalcyclists and 42 other parties.

8: PEDESTRIAN VICTIMS

Table 8-1
Leading Causes of Pedestrian Injuries by Age Group of Victim
County of San Diego

Age Group of Victim	Rank of Violation Category						Total Number of Victims
	1	2	3	4	5	6	
0-4	Pedestrian Violation 34	Pedestrian Right-of-Way 7	Unsafe Start/Backup 3†	DUI Alcohol/Drugs 3†	Automobile Right-of-Way 3†	Improper Turning 2	61
5-9	Pedestrian Violation 101	Pedestrian Right-of-Way 18	Unsafe Start/Backup 8	Unsafe Speed 4	Traffic Signals & Signs 2	*	149
10-14	Pedestrian Violation 85	Pedestrian Right-of-Way 42	Improper Turning 6	DUI Alcohol/Drugs 5	**		174
15-19	Pedestrian Violation 47	Pedestrian Right-of-Way 22	Automobile Right-of-Way 5	Unsafe Start/Backup 4	Improper Turning 3†	DUI Alcohol/Drugs 3†	102
20-24	Pedestrian Violation 24	Pedestrian Right-of-Way 18	Improper Turning 5	Peds UI Alcohol/Drugs 4	**		80
25-34	Pedestrian Violation 52	Pedestrian Right-of-Way 27	Peds UI Alcohol/Drugs 12	Improper Turning 7	Unsafe Start/Backup 6	DUI Alcohol/Drugs 4	131
35-44	Pedestrian Violation 51	Pedestrian Right-of-Way 35	Peds UI Alcohol/Drugs 7†	DUI Alcohol/Drugs 7†	Improper Turning 6	**	153
45-54	Pedestrian Violation 29	Pedestrian Right-of-Way 24	Peds UI Alcohol/Drugs 10	Improper Turning 6	Improper Passing 4	**	105
55-64	Pedestrian Right-of-Way 24	Pedestrian Violation 18	Unsafe Start/Backup 4†	Improper Turning 4†	Improper Passing 4†	Traffic Signals & Signs 3	70
65-74	Pedestrian Violation 20	Pedestrian Right-of-Way 12	Unsafe Start/Backup 3†	Unsafe Speed 3†	Improper Turning 2	*	50
75-84	Pedestrian Violation 16	Pedestrian Right-of-Way 14	Unsafe Start/Backup 6	Improper Turning 4	Unsafe Speed 3	Automobile Right-of-Way 2	48
85+	Pedestrian Violation 7	Pedestrian Right-of-Way 4	*				13
All Ages	Pedestrian Violation 488	Pedestrian Right-of-Way 251	Unsafe Start/Backup 47†	Improper Turning 47†	Peds UI Alcohol/Drugs 40	DUI Alcohol/Drugs 30	1149

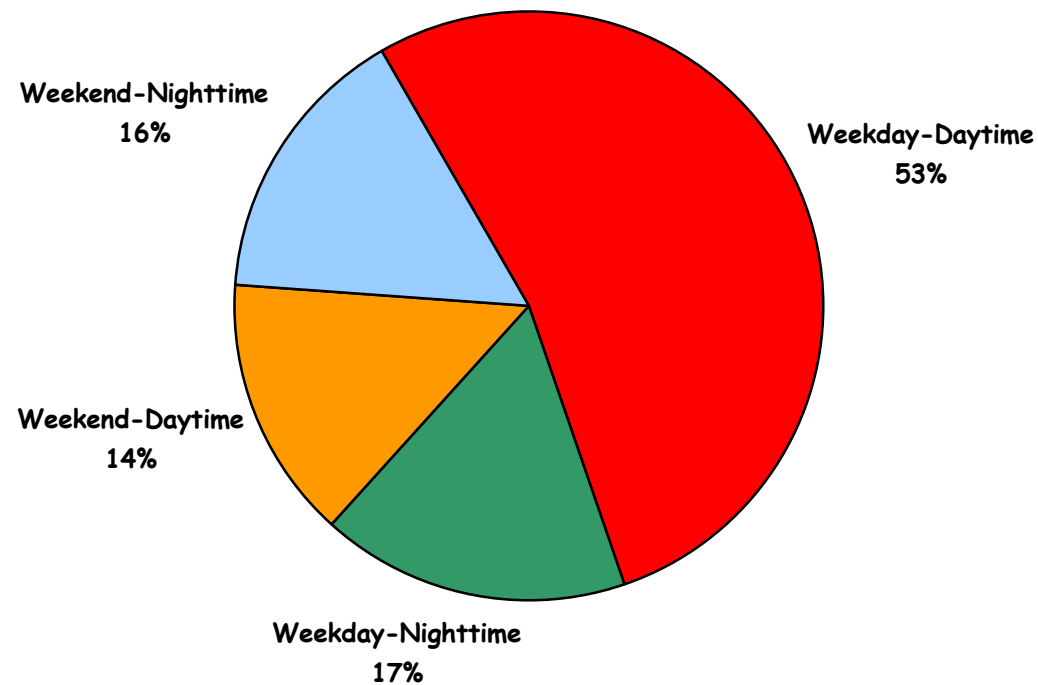
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

* Violation categories leading to a single victim were not ranked.

** Multiple violation categories with the same number of victims were not listed due to space limitations.

† Tie

Figure 8.1
Pedestrian Crash Victims by Time of Week
County of San Diego



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

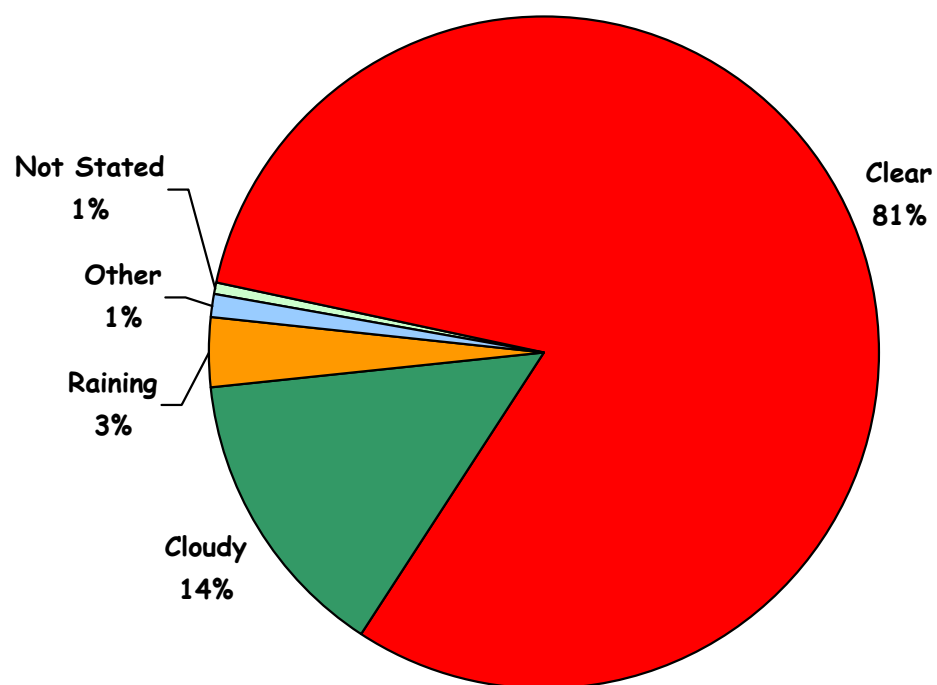
Table 8-2
Number of Pedestrian Victims Killed or Injured in Pedestrian Crashes
in the County of San Diego
by Age of Victim and Time of Week
July 1, 1998 to June 30, 1999

Age of Victim	Time of Week								Total	
	Not Stated	Weekday-Daytime	Weekday-Nighttime	Weekend-Daytime	Weekend-Nighttime					
1 to 4	0 (0.00%)*	28 (45.90%)	5 (8.20%)	18 (29.51%)	10 (16.39%)				61 (100.%)	
5 to 9	0 (0.00%)	90 (60.40%)	16 (10.74%)	29 (19.46%)	14 (9.40%)				149 (100.%)	
10 to 14	0 (0.00%)	122 (70.11%)	22 (12.64%)	23 (13.22%)	7 (4.02%)				174 (100.%)	
15 to 19	0 (0.00%)	56 (54.90%)	19 (18.63%)	11 (10.78%)	16 (15.69%)				102 (100.%)	
20 to 24	0 (0.00%)	25 (31.25%)	25 (31.25%)	11 (13.75%)	19 (23.75%)				80 (100.%)	
25 to 34	0 (0.00%)	68 (51.91%)	21 (16.03%)	13 (9.92%)	29 (22.14%)				131 (100.%)	
35 to 44	1 (0.65%)	61 (39.87%)	34 (22.22%)	15 (9.80%)	42 (27.45%)				153 (100.%)	
45 to 54	0 (0.00%)	56 (53.33%)	26 (24.76%)	9 (8.57%)	14 (13.33%)				105 (100.%)	
55 to 64	0 (0.00%)	38 (54.29%)	16 (22.86%)	11 (15.71%)	5 (7.14%)				70 (100.%)	
65 to 74	0 (0.00%)	33 (66.00%)	0 (0.00%)	8 (16.00%)	9 (18.00%)				50 (100.%)	
75 to 84	0 (0.00%)	22 (45.83%)	10 (20.83%)	13 (27.08%)	3 (6.25%)				48 (100.%)	
85 and older	0 (0.00%)	7 (53.85%)	1 (7.69%)	4 (30.77%)	1 (7.69%)				13 (100.%)	
Not stated	0 (0.00%)	2 (15.38%)	2 (15.38%)	0 (0.00%)	9 (69.23%)				13 (100.%)	
Total	1 (0.09%)	608 (52.92%)	197 (17.15%)	165 (14.36%)	178 (15.49%)				1149 (100.%)	

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Figure 8.2
Pedestrian Crash Victims by First Weather Condition
County of San Diego



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 8-3
Number of Pedestrian Victims Killed or Injured in Pedestrian Crashes
in the County of San Diego
by Age of Victim and Type of Party at Fault
July 1, 1998 to June 30, 1999

Age of Victim	Fault in Pedestrian Crash						Total	
	Pedestrian at Fault		Other Party at Fault		Fault Not Assigned			
1 to 4	37	(60.66%)*	15	(24.59%)	9	(14.75%)	61	(100.%)
5 to 9	99	(66.44%)	31	(20.81%)	19	(12.75%)	149	(100.%)
10 to 14	84	(48.28%)	66	(37.93%)	24	(13.79%)	174	(100.%)
15 to 19	48	(47.06%)	40	(39.22%)	14	(13.73%)	102	(100.%)
20 to 24	26	(32.50%)	31	(38.75%)	23	(28.75%)	80	(100.%)
25 to 34	62	(47.33%)	52	(39.69%)	17	(12.98%)	131	(100.%)
35 to 44	56	(36.60%)	69	(45.10%)	28	(18.30%)	153	(100.%)
45 to 54	39	(37.14%)	49	(46.67%)	17	(16.19%)	105	(100.%)
55 to 64	18	(25.71%)	41	(58.57%)	11	(15.71%)	70	(100.%)
65 to 74	16	(32.00%)	30	(60.00%)	4	(8.00%)	50	(100.%)
75 to 84	14	(29.17%)	32	(66.67%)	2	(4.17%)	48	(100.%)
85 and older	7	(53.85%)	5	(38.46%)	1	(7.69%)	13	(100.%)
Not stated	7	(53.85%)	4	(30.77%)	2	(15.38%)	13	(100.%)
Total	513	(44.65%)	465	(40.47%)	171	(14.88%)	1149	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

9: PEDESTRIAN CRASHES

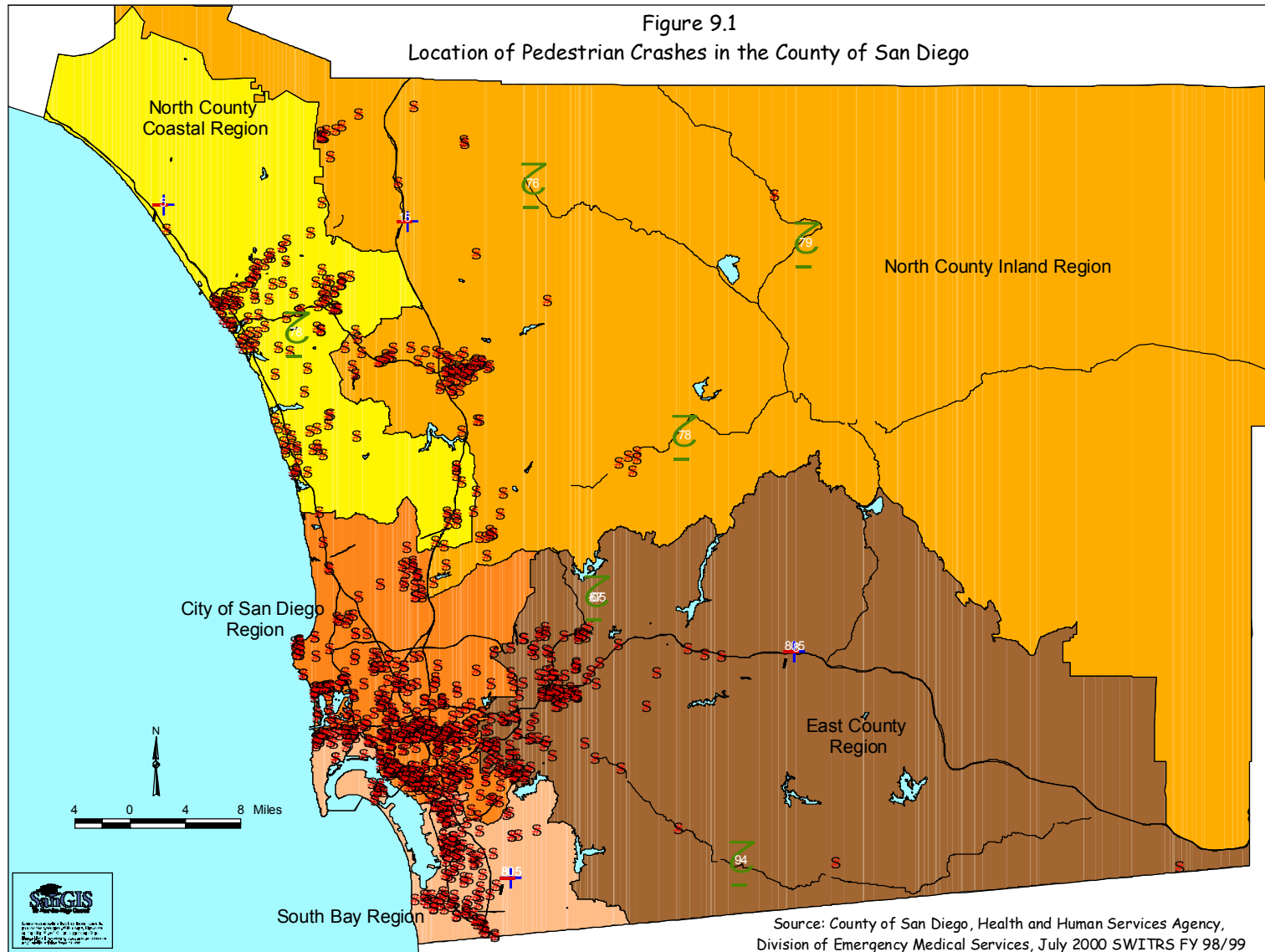


Table 9-1
Leading Violation Categories in Pedestrian Crashes by Age of Party at Fault
County of San Diego

Age of Party at Fault	Rank of Violation Category						Total Number of Crashes
	1	2	3	4	5	6	
0-4	Pedestrian Violation 29	Automobile Right-of-Way 3	*				34
5-9	Pedestrian Violation 88	*					94
10-14	Pedestrian Violation 75	*					80
15-19	Pedestrian Violation 43	Pedestrian Right-of-Way 17	Improper Turning 4	**			76
20-24	Pedestrian Right-of-Way 24	Pedestrian Violation 22	Improper Turning 4†	Peds UI Alcohol/Drugs 4†	Unsafe Speed 4†	**	70
25-34	Pedestrian Violation 55	Pedestrian Right-of-Way 42	Unsafe Start/Backup 13	Peds UI Alcohol/Drugs 12	Improper Turning 5	**	144
35-44	Pedestrian Violation 44	Pedestrian Right-of-Way 27	Unsafe Start/Backup 14	Peds UI Alcohol/Drugs 7	**		128
45-54	Pedestrian Violation 28	Pedestrian Right-of-Way 24	Peds UI Alcohol/Drugs 9	Improper Turning 5	Automobile Right-of-Way 4	Unsafe Start/Backup 3	87
55-64	Pedestrian Violation 16	Pedestrian Right-of-Way 15	Unsafe Start/Backup 3	Improper Turning 2†	Peds UI Alcohol/Drugs 2†	Unsafe Speed 2†	46
65-74	Pedestrian Violation 15	Pedestrian Right-of-Way 10	*				30
75-84	Pedestrian Violation 14	Pedestrian Right-of-Way 9	*				28
85+	Pedestrian Violation 7						7
All Crashes	Pedestrian Violation 477	Pedestrian Right-of-Way 230	Unsafe Start/Backup 45	Improper Turning 44	Peds UI Alcohol/Drugs 39	Unsafe Speed 25	1094

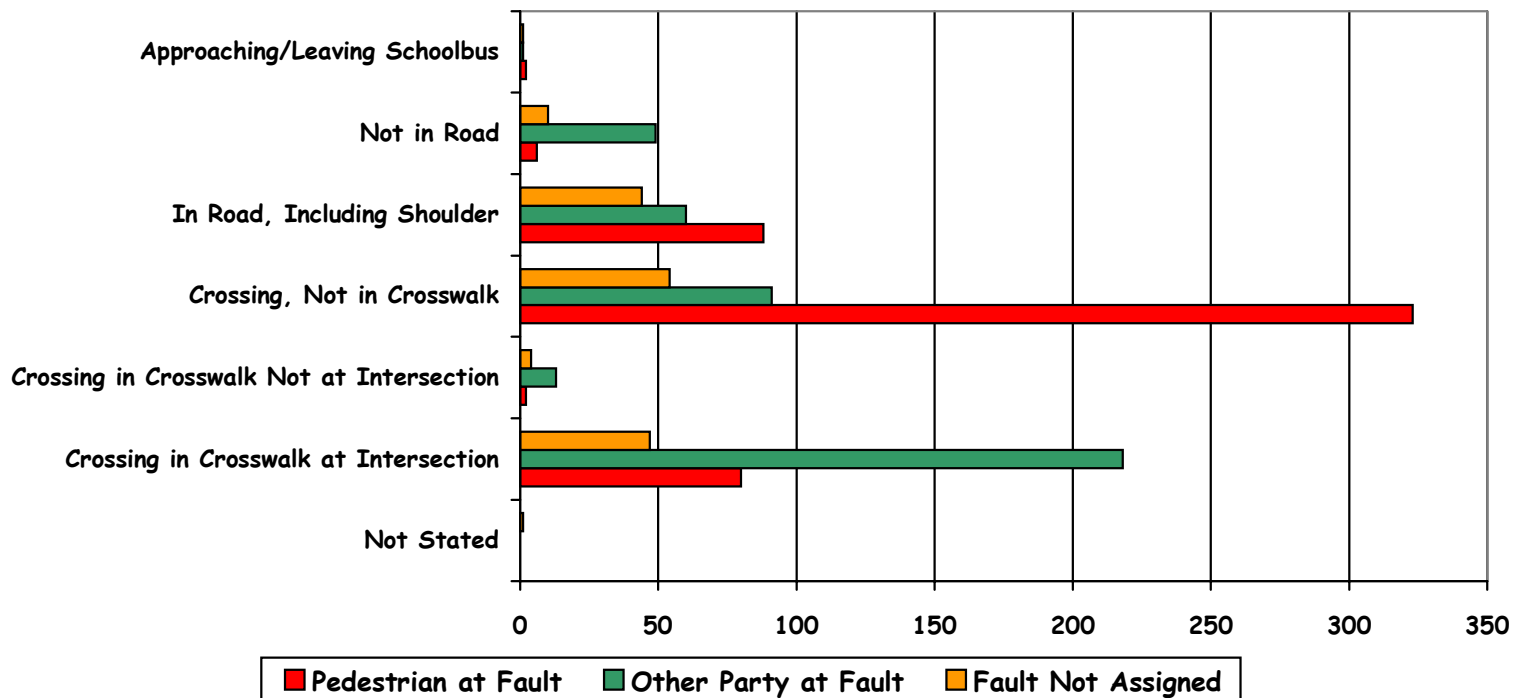
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

* Violation categories leading to a single crash were not ranked.

** Multiple violation categories with the same number of crashes were not listed due to space limitations.

† Tie

Figure 9.2
Pedestrian Action by Type of Party at Fault
County of San Diego



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 9-2a
Number of Pedestrian Crashes in the County of San Diego
by Age of Party at Fault and Pedestrian Action
In Crashes Where the Pedestrian Was at Fault†
July 1, 1998 to June 30, 1999

Age of Party at Fault	Pedestrian Action							Total
	Not Stated	Crossing in Crosswalk at Intersection	Crossing in Crosswalk Not at Intersection	Crossing, Not in Crosswalk	In Road, Including Shoulder	Not in Road	Approaching/ Leaving Schoolbus	
Not Stated	0 (0.00%)*	3 (23.08%)	0 (0.00%)	6 (46.15%)	4 (30.77%)	0 (0.00%)	0 (0.00%)	13 (100.%)
1 to 4	0 (0.00%)	2 (5.88%)	0 (0.00%)	28 (82.35%)	4 (11.76%)	0 (0.00%)	0 (0.00%)	34 (100.%)
5 to 9	0 (0.00%)	13 (13.83%)	1 (1.06%)	70 (74.47%)	10 (10.64%)	0 (0.00%)	0 (0.00%)	94 (100.%)
10 to 14	0 (0.00%)	12 (15.00%)	1 (1.25%)	50 (62.50%)	15 (18.75%)	1 (1.25%)	1 (1.25%)	80 (100.%)
15 to 19	0 (0.00%)	6 (12.77%)	0 (0.00%)	32 (68.09%)	7 (14.89%)	2 (4.26%)	0 (0.00%)	47 (100.%)
20 to 24	0 (0.00%)	8 (32.00%)	0 (0.00%)	11 (44.00%)	5 (20.00%)	1 (4.00%)	0 (0.00%)	25 (100.%)
25 to 34	0 (0.00%)	7 (11.67%)	0 (0.00%)	37 (61.67%)	15 (25.00%)	1 (1.67%)	0 (0.00%)	60 (100.%)
35 to 44	0 (0.00%)	9 (16.36%)	0 (0.00%)	32 (58.18%)	13 (23.64%)	1 (1.82%)	0 (0.00%)	55 (100.%)
45 to 54	0 (0.00%)	8 (21.05%)	0 (0.00%)	22 (57.89%)	8 (21.05%)	0 (0.00%)	0 (0.00%)	38 (100.%)
55 to 64	0 (0.00%)	2 (11.11%)	0 (0.00%)	13 (72.22%)	3 (16.67%)	0 (0.00%)	0 (0.00%)	18 (100.%)
65 to 74	0 (0.00%)	6 (37.50%)	0 (0.00%)	7 (43.75%)	3 (18.75%)	0 (0.00%)	0 (0.00%)	16 (100.%)
75 to 84	0 (0.00%)	2 (14.29%)	0 (0.00%)	11 (78.57%)	0 (0.00%)	0 (0.00%)	1 (7.14%)	14 (100.%)
85 and older	0 (0.00%)	2 (28.57%)	0 (0.00%)	4 (57.14%)	1 (14.29%)	0 (0.00%)	0 (0.00%)	7 (100.%)
Total	0 (0.00%)	80 (15.97%)	2 (0.40%)	323 (64.47%)	88 (17.56%)	6 (1.20%)	2 (0.40%)	501 (100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

†There were 432 crashes where the other party was at fault and 161 crashes where fault was not assigned.

Table 9-2b
Number of Pedestrian Crashes in the County of San Diego
by Age of Party at Fault and Pedestrian Action
In Crashes Where the Other Party Was at Fault†
July 1, 1998 to June 30, 1999

Age of Party at Fault	Pedestrian Action							Total
	Not Stated	Crossing in Crosswalk at Intersection	Crossing in Crosswalk Not at Intersection	Crossing, Not in Crosswalk	In Road, Including Shoulder	Not in Road	Approaching/ Leaving Schoolbus	
Not Stated	0	42	3	21	18	12	0	96
	(0.00%)*	(43.75%)	(3.13%)	(21.88%)	(18.75%)	(12.50%)	(0.00%)	(100.%)
15 to 19	0	16	1	3	6	3	0	29
	(0.00%)	(55.17%)	(3.45%)	(10.34%)	(20.69%)	(10.34%)	(0.00%)	(100.%)
20 to 24	0	29	2	9	2	3	0	45
	(0.00%)	(64.44%)	(4.44%)	(20.00%)	(4.44%)	(6.67%)	(0.00%)	(100.%)
25 to 34	0	42	2	17	10	13	0	84
	(0.00%)	(50.00%)	(2.38%)	(20.24%)	(11.90%)	(15.48%)	(0.00%)	(100.%)
35 to 44	0	35	3	18	9	8	0	73
	(0.00%)	(47.95%)	(4.11%)	(24.66%)	(12.33%)	(10.96%)	(0.00%)	(100.%)
45 to 54	0	22	0	14	7	6	0	49
	(0.00%)	(44.90%)	(0.00%)	(28.57%)	(14.29%)	(12.24%)	(0.00%)	(100.%)
55 to 64	0	17	2	3	5	1	0	28
	(0.00%)	(60.71%)	(7.14%)	(10.71%)	(17.86%)	(3.57%)	(0.00%)	(100.%)
65 to 74	0	8	0	3	1	1	1	14
	(0.00%)	(57.14%)	(0.00%)	(21.43%)	(7.14%)	(7.14%)	(7.14%)	(100.%)
75 to 84	0	7	0	3	2	2	0	14
	(0.00%)	(50.00%)	(0.00%)	(21.43%)	(14.29%)	(14.29%)	(0.00%)	(100.%)
Total	0	218	13	91	60	49	1	432
	(0.00%)	(50.46%)	(3.01%)	(21.06%)	(13.89%)	(11.34%)	(0.23%)	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

†There were 501 crashes where the pedestrian was at fault and 161 crashes where fault was not assigned.

Table 9-3
Number of Pedestrian Crashes in the County of San Diego
by Age of Party at Fault and First Weather Condition
July 1, 1998 to June 30, 1999

Age of Party at Fault	First Weather Condition						Total
	Not Stated	Clear	Cloudy	Raining	Fog	Other	
Not Stated	0 (0.00%)*	84 (77.06%)	17 (15.60%)	7 (6.42%)	0 (0.00%)	1 (0.92%)	109 (100.%)
1 to 4	0 (0.00%)	30 (88.24%)	4 (11.76%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	34 (100.%)
5 to 9	0 (0.00%)	83 (88.30%)	10 (10.64%)	1 (1.06%)	0 (0.00%)	0 (0.00%)	94 (100.%)
10 to 14	0 (0.00%)	67 (83.75%)	11 (13.75%)	2 (2.50%)	0 (0.00%)	0 (0.00%)	80 (100.%)
15 to 19	0 (0.00%)	66 (86.84%)	8 (10.53%)	1 (1.32%)	1 (1.32%)	0 (0.00%)	76 (100.%)
20 to 24	0 (0.00%)	53 (75.71%)	11 (15.71%)	4 (5.71%)	2 (2.86%)	0 (0.00%)	70 (100.%)
25 to 34	0 (0.00%)	114 (79.17%)	24 (16.67%)	2 (1.39%)	0 (0.00%)	4 (2.78%)	144 (100.%)
35 to 44	0 (0.00%)	105 (82.03%)	19 (14.84%)	3 (2.34%)	0 (0.00%)	1 (0.78%)	128 (100.%)
45 to 54	0 (0.00%)	65 (74.71%)	17 (19.54%)	4 (4.60%)	0 (0.00%)	1 (1.15%)	87 (100.%)
55 to 64	0 (0.00%)	34 (73.91%)	8 (17.39%)	3 (6.52%)	0 (0.00%)	1 (2.17%)	46 (100.%)
65 to 74	0 (0.00%)	24 (80.00%)	4 (13.33%)	1 (3.33%)	0 (0.00%)	1 (3.33%)	30 (100.%)
75 to 84	0 (0.00%)	23 (82.14%)	4 (14.29%)	1 (3.57%)	0 (0.00%)	0 (0.00%)	28 (100.%)
85 and older	0 (0.00%)	5 (71.43%)	1 (14.29%)	0 (0.00%)	1 (14.29%)	0 (0.00%)	7 (100.%)
Fault Not Assigned	6 (3.73%)	127 (78.88%)	17 (10.56%)	8 (4.97%)	0 (0.00%)	3 (1.86%)	161 (100.%)
Total	6 (0.55%)	880 (80.44%)	155 (14.17%)	37 (3.38%)	4 (0.37%)	12 (1.10%)	1094 (100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 9-4
Number of Pedestrian Crashes in the County of San Diego
by Age and Gender of Party at Fault and Type of Party at Fault
July 1, 1998 to June 30, 1999

Age of Party at Fault	Fault in Pedestrian Crash†					
	Pedestrian at Fault			Other Party at Fault		
	Gender of Party at Fault††			Gender of Party at Fault††		
	Male		Female	Male		Female
Not Stated	11	(2.20%)*	2 (0.40%)	23	(6.23%)	11 (2.98%)
1 to 4	21	(4.19%)	13 (2.59%)	0	(0.00%)	0 (0.00%)
5 to 9	73	(14.57%)	21 (4.19%)	0	(0.00%)	0 (0.00%)
10 to 14	56	(11.18%)	24 (4.79%)	0	(0.00%)	0 (0.00%)
15 to 19	32	(6.39%)	15 (2.99%)	14	(3.79%)	15 (4.07%)
20 to 24	15	(2.99%)	10 (2.00%)	24	(6.50%)	21 (5.69%)
25 to 34	38	(7.58%)	22 (4.39%)	49	(13.28%)	34 (9.21%)
35 to 44	36	(7.19%)	19 (3.79%)	43	(11.65%)	30 (8.13%)
45 to 54	18	(3.59%)	20 (3.99%)	27	(7.32%)	22 (5.96%)
55 to 64	10	(2.00%)	8 (1.60%)	22	(5.96%)	6 (1.63%)
65 to 74	8	(1.60%)	8 (1.60%)	7	(1.90%)	7 (1.90%)
75 to 84	7	(1.40%)	7 (1.40%)	6	(1.63%)	8 (2.17%)
85 and older	3	(0.60%)	4 (0.80%)	0	(0.00%)	0 (0.00%)
Total	328	(65.47%)	173 (34.53%)	215	(58.27%)	154 (41.73%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are age and gender percents.

†Fault was not assigned in 161 crashes.

††Gender of party at fault was not stated for 63 other parties.



REPORT OF FATAL AND INJURY TRAFFIC COLLISIONS

++++

NORTH COUNTY COASTAL REGION

Fiscal Year 1998 - 1999

*Produced by the County of San Diego, Health and Human Services Agency,
Division of Emergency Medical Services, January 2001*

*Funding for this program was provided by a grant from the California Office of Traffic Safety
through the Business, Transportation & Housing Agency*

1: OVERVIEW

Table 1-1
Number of Victims Killed or Injured in Crashes in the North County Coastal Region
by Type of Crash and Type of Victim
July 1, 1998 to June 30, 1999

Type of Crash	Type of Victim								Total
	Motor Vehicle Occupant	Motorcyclist	Pedestrian	Pedalcyclist	Other				
Motor Vehicle Occupant	3272† (99.79%)*	0 (0.00%)	6 (0.18%)	0 (0.00%)	1 (0.03%)				3279 (100.%)
Motorcycle	6 (6.06%)	92† (92.93%)	0 (0.00%)	1 (1.01%)	0 (0.00%)				99 (100.%)
Pedalcycle	0 (0.00%)	0 (0.00%)	2 (2.22%)	88† (97.78%)	0 (0.00%)				90 (100.%)
Pedestrian	1 (0.62%)	1 (0.62%)	159† (98.76%)	0 (0.00%)	0 (0.00%)				161 (100.%)
Other	2 (8.70%)	0 (0.00%)	7 (30.43%)	14 (60.87%)	0 (0.00%)				23 (100.%)
Total	3281 (89.84%)	93 (2.55%)	174 (4.76%)	103 (2.82%)	1 (0.03%)				3652 (100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

†These are the victims included in the tables in sections 2, 4, 6, and 8.

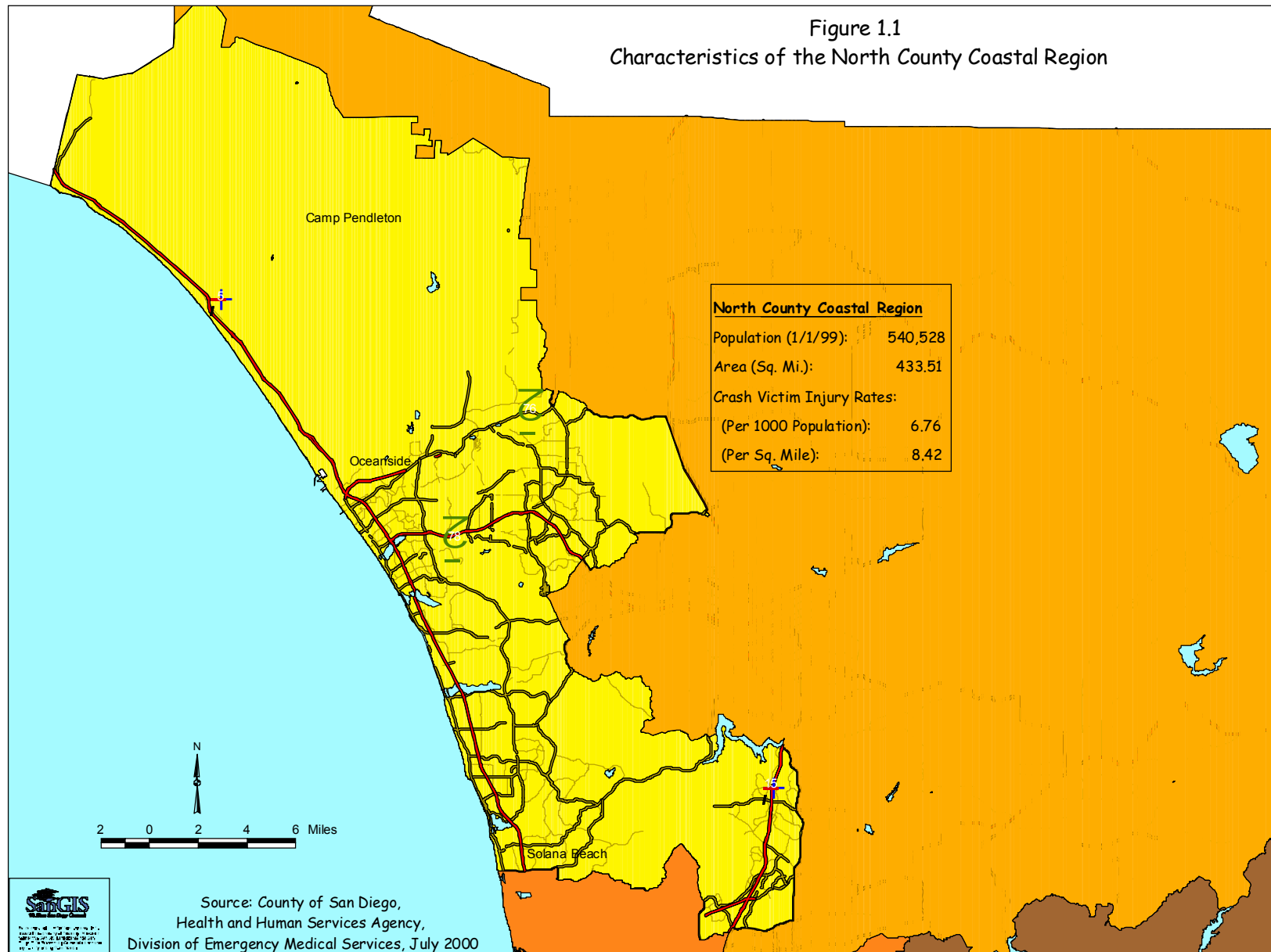
Table 1-2
Number of Victims Killed or Injured in Crashes in the North County Coastal Region
by Type of Crash and Severity of Injury
July 1, 1998 to June 30, 1999

Type of Crash	Severity of Injury								Total
	Killed	Severe Injury	Other Visible Injury	Complaint of Pain					
Motor Vehicle Occupant	40 (1.22%)*	119 (3.63%)	814 (24.82%)	2306 (70.33%)					3279 (100.%)
Motorcycle	1 (1.01%)	15 (15.15%)	48 (48.48%)	35 (35.35%)					99 (100.%)
Pedalcycle	1 (1.11%)	8 (8.89%)	53 (58.89%)	28 (31.11%)					90 (100.%)
Pedestrian	14 (8.70%)	27 (16.77%)	69 (42.86%)	51 (31.68%)					161 (100.%)
Other	0 (0.00%)	2 (8.70%)	13 (56.52%)	8 (34.78%)					23 (100.%)
Total	56 (1.53%)	171 (4.68%)	997 (27.30%)	2428 (66.48%)					3652 (100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Figure 1.1
Characteristics of the North County Coastal Region



2: MOTOR VEHICLE OCCUPANT VICTIMS

Table 2-1
Leading Causes of Motor Vehicle Occupant Injuries by Age Group of Victim
North County Coastal Region

Age Group of Victim	Rank of Violation Category						Total Number of Victims
	1	2	3	4	5	6	
0-4	Unsafe Speed 12	Automobile Right-of-Way 7	Improper Turning 6	Traffic Signals & Signs 5	Following Too Closely 3†	Wrong Side of Road 3†	46
5-9	Unsafe Speed 26	Automobile Right-of-Way 12	Improper Turning 10	Traffic Signals & Signs 7	Following Too Closely 6	Wrong Side of Road 5	76
10-14	Unsafe Speed 45	Automobile Right-of-Way 20	Improper Turning 15	Traffic Signals & Signs 8	Unsafe Lane Change 6	Following Too Closely 5	115
15-19	Unsafe Speed 162	Automobile Right-of-Way 73	Improper Turning 69	DUI Alcohol/Drugs 59	Traffic Signals & Signs 49	Unsafe Lane Change 25	514
20-24	Unsafe Speed 110	DUI Alcohol/Drugs 77†	Improper Turning 77†	Automobile Right-of-Way 60	Traffic Signals & Signs 38	Unsafe Lane Change 33	474
25-34	Unsafe Speed 209	DUI Alcohol/Drugs 83	Automobile Right-of-Way 75	Improper Turning 64	Traffic Signals & Signs 46	Unsafe Lane Change 31	602
35-44	Unsafe Speed 180	DUI Alcohol/Drugs 74	Automobile Right-of-Way 73	Improper Turning 46	Traffic Signals & Signs 43	Following Too Closely 25	543
45-54	Unsafe Speed 132	DUI Alcohol/Drugs 49	Automobile Right-of-Way 47	Traffic Signals & Signs 33	Unsafe Lane Change 22	Improper Turning 20	370
55-64	Unsafe Speed 70	Automobile Right-of-Way 37	Traffic Signals & Signs 17	DUI Alcohol/Drugs 13†	Improper Turning 13†	Following Too Closely 9	200
65-74	Unsafe Speed 54	Automobile Right-of-Way 31	Traffic Signals & Signs 11	Improper Turning 7	**		139
75-84	Unsafe Speed 31	Automobile Right-of-Way 26	Traffic Signals & Signs 21	Improper Turning 12	Following Too Closely 9†	Wrong Side of Road 9†	124
85+	Unsafe Speed 10	Automobile Right-of-Way 8	Improper Turning 5	Traffic Signals & Signs 3	*		29
All Ages	Unsafe Speed 1052	Automobile Right-of-Way 470	DUI Alcohol/Drugs 370	Improper Turning 345	Traffic Signals & Signs 285	Unsafe Lane Change 164	3272

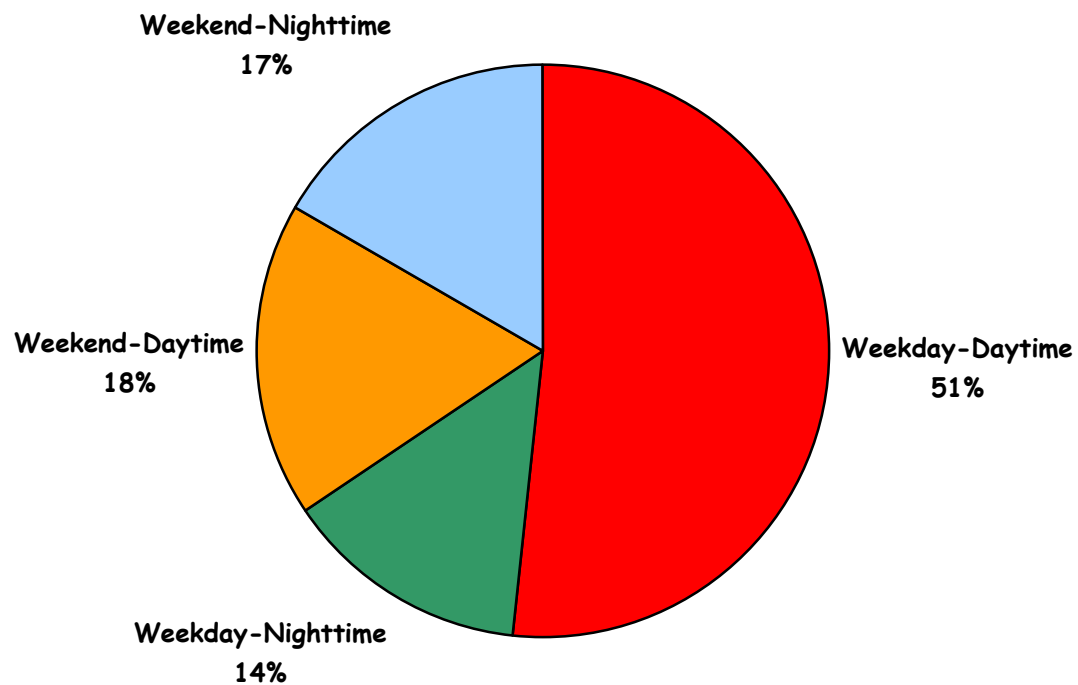
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

* Violation categories leading to a single victim were not ranked.

** Multiple violation categories with the same number of victims were not listed due to space limitations.

† Tie

Figure 2.1
Motor Vehicle Occupant Crash Victims by Time of Week
North County Coastal Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

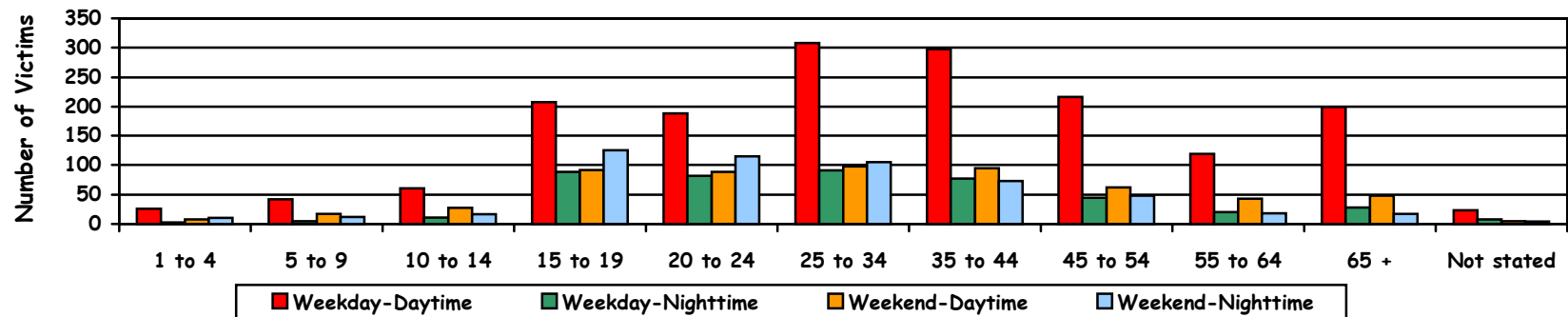
Table 2-2
Number of Motor Vehicle Occupant Victims Killed or Injured
in Motor Vehicle Occupant Crashes in the North County Coastal Region
by Age of Victim and Time of Week
July 1, 1998 to June 30, 1999

Age of Victim	Time of Week								Total	
	Weekday-Daytime		Weekday-Nighttime		Weekend-Daytime		Weekend-Nighttime			
1 to 4	26	(56.52%)*	2	(4.35%)	8	(17.39%)	10	(21.74%)	46	(100.%)
5 to 9	42	(55.26%)	5	(6.58%)	17	(22.37%)	12	(15.79%)	76	(100.%)
10 to 14	61	(53.04%)	11	(9.57%)	27	(23.48%)	16	(13.91%)	115	(100.%)
15 to 19	208	(40.47%)	89	(17.32%)	92	(17.90%)	125	(24.32%)	514	(100.%)
20 to 24	188	(39.66%)	82	(17.30%)	89	(18.78%)	115	(24.26%)	474	(100.%)
25 to 34	308	(51.16%)	91	(15.12%)	98	(16.28%)	105	(17.44%)	602	(100.%)
35 to 44	298	(54.88%)	77	(14.18%)	95	(17.50%)	73	(13.44%)	543	(100.%)
45 to 54	216	(58.38%)	44	(11.89%)	62	(16.76%)	48	(12.97%)	370	(100.%)
55 to 64	119	(59.50%)	20	(10.00%)	43	(21.50%)	18	(9.00%)	200	(100.%)
65 to 74	94	(67.63%)	12	(8.63%)	27	(19.42%)	6	(4.32%)	139	(100.%)
75 to 84	87	(70.16%)	9	(7.26%)	17	(13.71%)	11	(8.87%)	124	(100.%)
85 and older	18	(62.07%)	7	(24.14%)	4	(13.79%)	0	(0.00%)	29	(100.%)
Not stated	23	(57.50%)	8	(20.00%)	5	(12.50%)	4	(10.00%)	40	(100.%)
Total	1688	(51.59%)	457	(13.97%)	584	(17.85%)	543	(16.60%)	3272	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

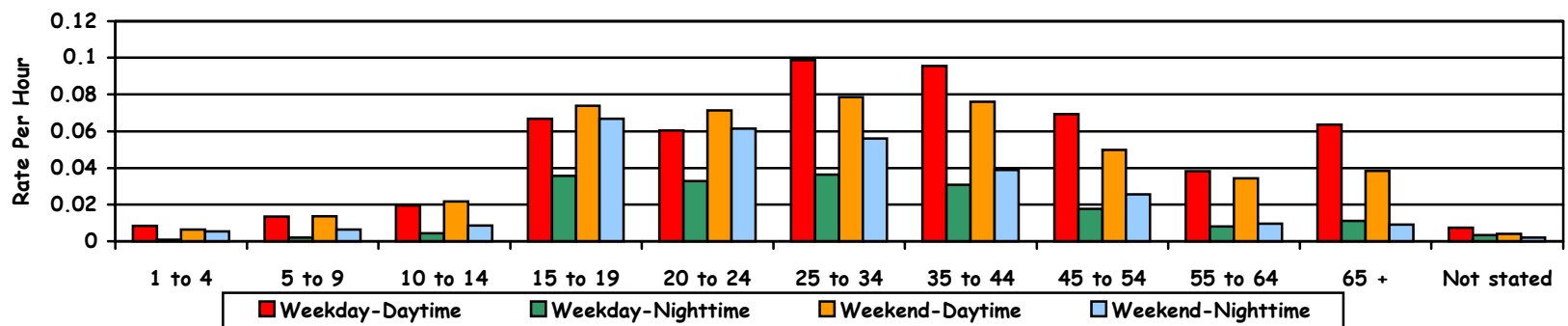
*Numbers in parentheses are row percents.

Figure 2.2
Motor Vehicle Occupant Crash Victims by Time of Week and Age of Victim
North County Coastal Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Figure 2.3
Motor Vehicle Occupant Victim Rates Per Hour by Time of Week and Age of Victim
North County Coastal Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 2-3
Number of Motor Vehicle Occupant Victims Killed or Injured
in Motor Vehicle Occupant Crashes in the North County Coastal Region
by Type of Collision and Severity of Injury
July 1, 1998 to June 30, 1999

Type of Collision	Severity of Injury								Total	
	Killed		Severe Injury		Other Visible Injury		Complaint of Pain			
Head-on	5	(2.45%)*	14	(6.86%)	62	(30.39%)	123	(60.29%)	204	(100.%)
Sideswipe	2	(0.72%)	10	(3.58%)	80	(28.67%)	187	(67.03%)	279	(100.%)
Rear-end	2	(0.14%)	26	(1.88%)	191	(13.83%)	1162	(84.14%)	1381	(100.%)
Broadside	7	(0.88%)	27	(3.38%)	203	(25.41%)	562	(70.34%)	799	(100.%)
Hit Object	23	(4.64%)	36	(7.26%)	226	(45.56%)	211	(42.54%)	496	(100.%)
Overtuned	1	(1.45%)	4	(5.80%)	40	(57.97%)	24	(34.78%)	69	(100.%)
Other	0	(0.00%)	1	(2.27%)	9	(20.45%)	34	(77.27%)	44	(100.%)
Total	40	(1.22%)	118	(3.61%)	811	(24.79%)	2303	(70.39%)	3272	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 2-4
Number of Motor Vehicle Occupant Victims Killed or Injured in Motor Vehicle Occupant Crashes
in the North County Coastal Region
by Age of Victim and Safety Equipment Used
July 1, 1998 to June 30, 1999

Age of Victim	Safety Equipment Used									Total
	Active Restraint - Used	Active Restraint - Not Used	Passive Restraint - Used/ Deployed	Passive Restraint - Not Used/ Deployed	Child Restraint - Used	Child Restraint - Improper Use	None in Vehicle	Unknown	Other/Not Required	
1 to 4	18 (39.13%)*	0 (0.00%)	0 (0.00%)	0 (0.00%)	20 (43.48%)	3 (6.52%)	1 (2.17%)	4 (8.70%)	0 (0.00%)	46 (100.%)
5 to 9	58 (76.32%)	5 (6.58%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	3 (3.95%)	6 (7.89%)	4 (5.26%)	76 (100.%)
10 to 14	88 (76.52%)	3 (2.61%)	6 (5.22%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	3 (2.61%)	7 (6.09%)	8 (6.96%)	115 (100.%)
15 to 19	384 (74.71%)	43 (8.37%)	30 (5.84%)	3 (0.58%)	0 (0.00%)	0 (0.00%)	2 (0.39%)	49 (9.53%)	3 (0.58%)	514 (100.%)
20 to 24	370 (78.06%)	21 (4.43%)	28 (5.91%)	3 (0.63%)	0 (0.00%)	0 (0.00%)	4 (0.84%)	48 (10.13%)	0 (0.00%)	474 (100.%)
25 to 34	480 (79.73%)	29 (4.82%)	27 (4.49%)	2 (0.33%)	0 (0.00%)	0 (0.00%)	7 (1.16%)	52 (8.64%)	5 (0.83%)	602 (100.%)
35 to 44	425 (78.27%)	18 (3.31%)	30 (5.52%)	1 (0.18%)	0 (0.00%)	0 (0.00%)	2 (0.37%)	64 (11.79%)	3 (0.55%)	543 (100.%)
45 to 54	297 (80.27%)	13 (3.51%)	19 (5.14%)	4 (1.08%)	0 (0.00%)	0 (0.00%)	2 (0.54%)	34 (9.19%)	1 (0.27%)	370 (100.%)
55 to 64	167 (83.50%)	5 (2.50%)	5 (2.50%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	19 (9.50%)	4 (2.00%)	200 (100.%)
65 to 74	115 (82.73%)	4 (2.88%)	5 (3.60%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	14 (10.07%)	1 (0.72%)	139 (100.%)
75 to 84	97 (78.23%)	4 (3.23%)	5 (4.03%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	17 (13.71%)	1 (0.81%)	124 (100.%)
85 and older	19 (65.52%)	1 (3.45%)	1 (3.45%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	8 (27.59%)	0 (0.00%)	29 (100.%)
Not stated	25 (62.50%)	2 (5.00%)	0 (0.00%)	0 (0.00%)	1 (2.50%)	0 (0.00%)	0 (0.00%)	11 (27.50%)	1 (2.50%)	40 (100.%)
Total	2543 (77.72%)	148 (4.52%)	156 (4.77%)	13 (0.40%)	21 (0.64%)	3 (0.09%)	24 (0.73%)	333 (10.18%)	31 (0.95%)	3272 (100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

3: MOTOR VEHICLE OCCUPANT CRASHES

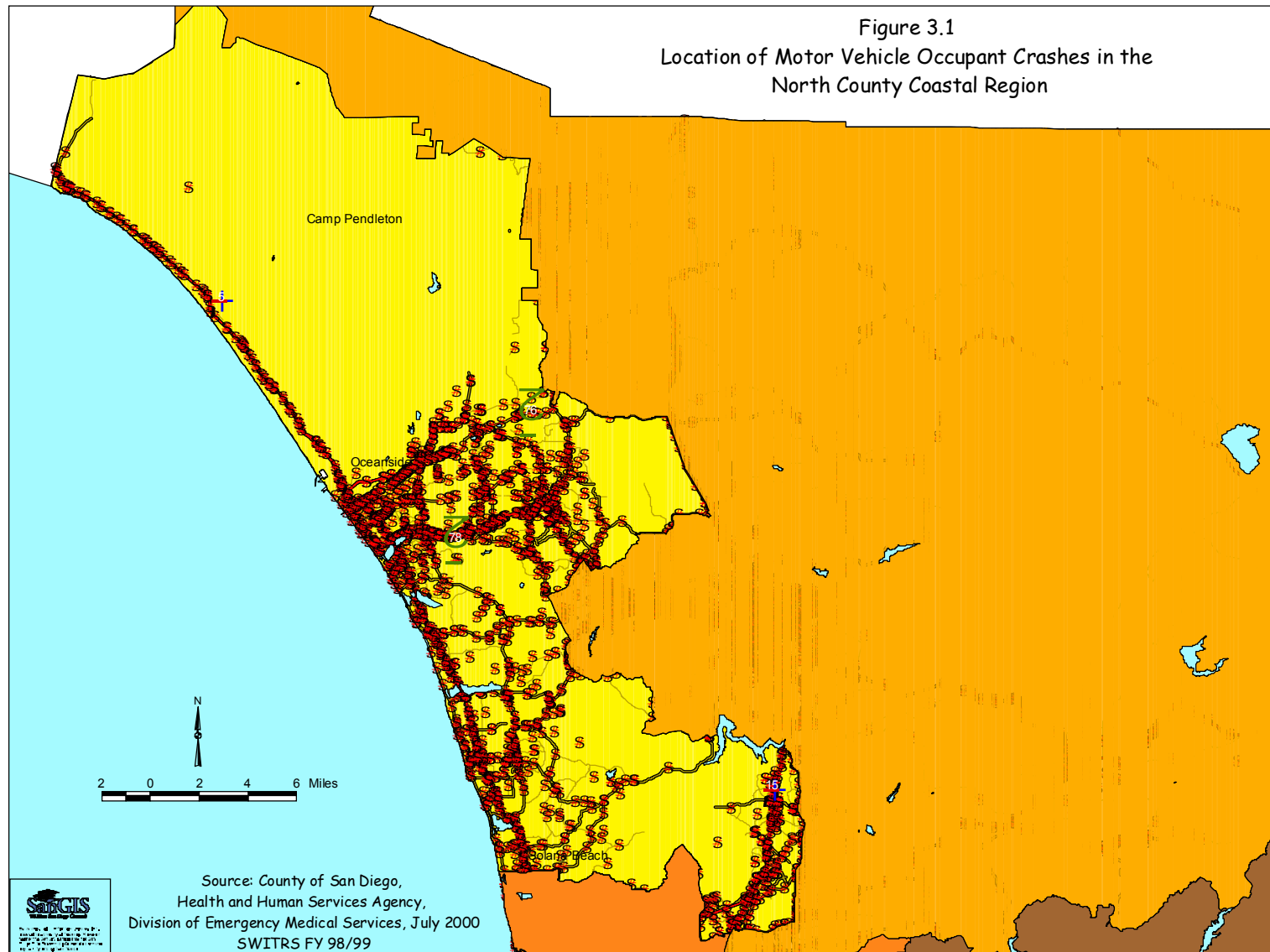


Table 3-1
Leading Violation Categories in Motor Vehicle Occupant Crashes by Age of Party at Fault
North County Coastal Region

Age of Party at Fault	Rank of Violation Category						Total Number of Crashes
	1	2	3	4	5	6	
10-14	*						1
15-19	Unsafe Speed 105	Automobile Right-of-Way 40†	Improper Turning 40†	Traffic Signals & Signs 25	DUI Alcohol/Drugs 23	Following Too Closely 13	282
20-24	Unsafe Speed 92	Improper Turning 51	DUI Alcohol/Drugs 48	Automobile Right-of-Way 32	Traffic Signals & Signs 24	Following Too Closely 18	298
25-34	Unsafe Speed 149	Automobile Right-of-Way 62	DUI Alcohol/Drugs 55	Improper Turning 40	Traffic Signals & Signs 31	Unsafe Lane Change 22	397
35-44	Unsafe Speed 115	DUI Alcohol/Drugs 54	Traffic Signals & Signs 41	Automobile Right-of-Way 40	Improper Turning 36	Following Too Closely 14	338
45-54	Unsafe Speed 65	DUI Alcohol/Drugs 30	Automobile Right-of-Way 25	Improper Turning 16	Traffic Signals & Signs 14	Following Too Closely 13	193
55-64	Unsafe Speed 33	Automobile Right-of-Way 22	Traffic Signals & Signs 8	DUI Alcohol/Drugs 6	Improper Turning 4	**	83
65-74	Automobile Right-of-Way 20	Unsafe Speed 18	Traffic Signals & Signs 11	Improper Turning 5	Wrong Side of Road 3	**	63
75-84	Automobile Right-of-Way 27	Unsafe Speed 23	Traffic Signals & Signs 12	Improper Turning 6	Following Too Closely 5†	Wrong Side of Road 5†	85
85+	Automobile Right-of-Way 9	Unsafe Speed 7	Improper Turning 6	Traffic Signals & Signs 2	*		26
All Crashes	Unsafe Speed 648	Automobile Right-of-Way 295	DUI Alcohol/Drugs 238	Improper Turning 216	Traffic Signals & Signs 178	Unsafe Lane Change 101	2073

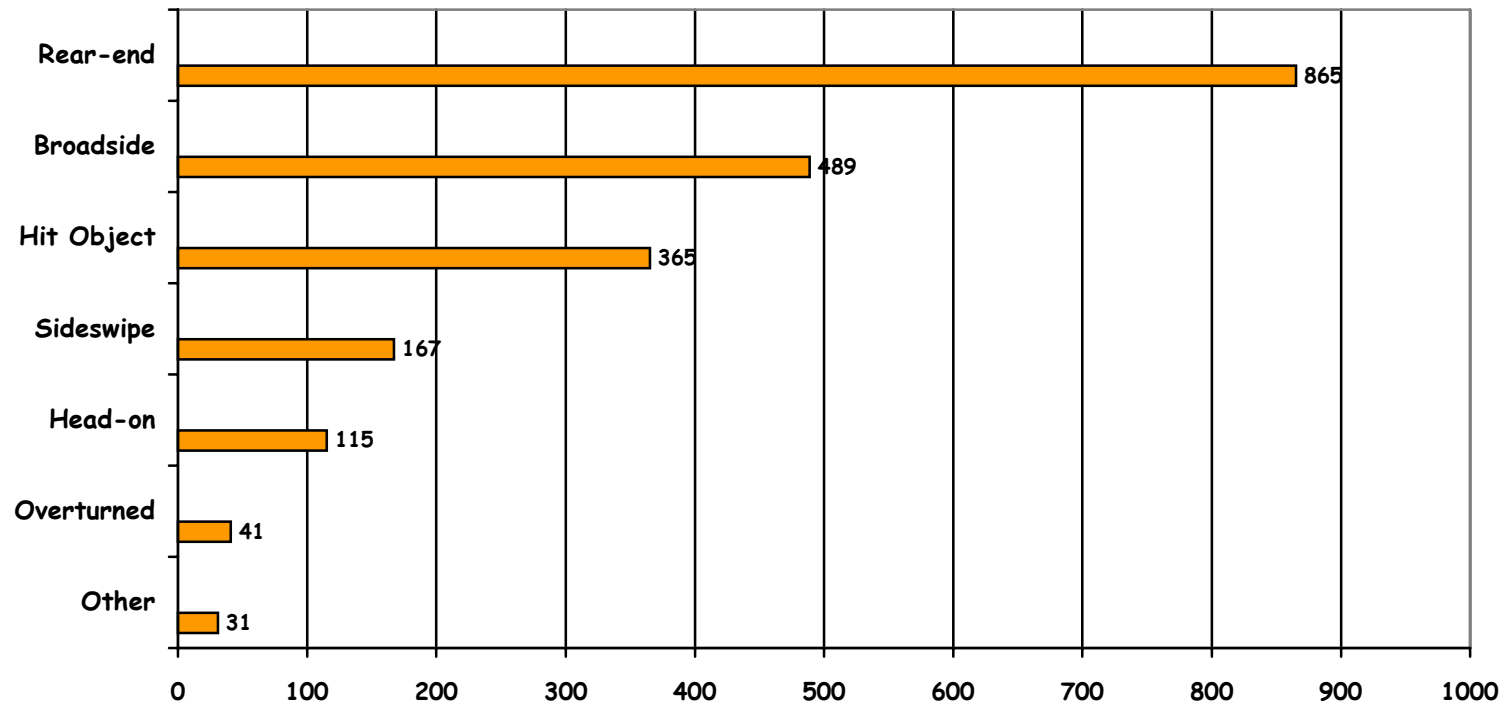
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

* Violation categories leading to a single crash were not ranked.

** Multiple violation categories with the same number of victims were not listed due to space limitations.

† Tie

Figure 3.2
Motor Vehicle Occupant Crashes by Type of Collision
North County Coastal Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 3-2
Number of Motor Vehicle Occupant Crashes in the North County Coastal Region
by Age of Party at Fault and Collision Type
July 1, 1998 to June 30, 1999

Age of Party at Fault	Collision Type							Total
	Head-on	Sideswipe	Rear-end	Broadside	Hit Object	Overturned	Other	
Not Stated	9	8	43	19	20	2	2	103
	(8.74%)*	(7.77%)	(41.75%)	(18.45%)	(19.42%)	(1.94%)	(1.94%)	(100.%)
10 to 14	1	0	0	0	0	0	0	1
	(100.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(100.%)
15 to 19	15	23	105	61	63	13	2	282
	(5.32%)	(8.16%)	(37.23%)	(21.63%)	(22.34%)	(4.61%)	(0.71%)	(100.%)
20 to 24	8	29	124	58	71	2	6	298
	(2.68%)	(9.73%)	(41.61%)	(19.46%)	(23.83%)	(0.67%)	(2.01%)	(100.%)
25 to 34	18	35	167	100	67	8	2	397
	(4.53%)	(8.82%)	(42.07%)	(25.19%)	(16.88%)	(2.02%)	(0.50%)	(100.%)
35 to 44	26	27	149	80	47	5	4	338
	(7.69%)	(7.99%)	(44.08%)	(23.67%)	(13.91%)	(1.48%)	(1.18%)	(100.%)
45 to 54	12	16	96	39	28	2	0	193
	(6.22%)	(8.29%)	(49.74%)	(20.21%)	(14.51%)	(1.04%)	(0.00%)	(100.%)
55 to 64	10	5	34	26	6	1	1	83
	(12.05%)	(6.02%)	(40.96%)	(31.33%)	(7.23%)	(1.20%)	(1.20%)	(100.%)
65 to 74	4	1	21	31	6	0	0	63
	(6.35%)	(1.59%)	(33.33%)	(49.21%)	(9.52%)	(0.00%)	(0.00%)	(100.%)
75 to 84	4	4	33	35	8	0	1	85
	(4.71%)	(4.71%)	(38.82%)	(41.18%)	(9.41%)	(0.00%)	(1.18%)	(100.%)
85 and older	3	6	8	6	3	0	0	26
	(11.54%)	(23.08%)	(30.77%)	(23.08%)	(11.54%)	(0.00%)	(0.00%)	(100.%)
Fault Not Assigned	5	13	85	34	46	8	13	204
	(2.45%)	(6.37%)	(41.67%)	(16.67%)	(22.55%)	(3.92%)	(6.37%)	(100.%)
Total	115	167	865	489	365	41	31	2073
	(5.55%)	(8.06%)	(41.73%)	(23.59%)	(17.61%)	(1.98%)	(1.50%)	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 3-3
Number of Motor Vehicle Occupant Crashes in the North County Coastal Region
by Age of Party at Fault and First Weather Condition
July 1, 1998 to June 30, 1999

Age of Party at Fault	First Weather Condition							Total
	Not Stated	Clear	Cloudy	Raining	Snowing	Fog	Other	
Not Stated	1	81	15	6	0	0	0	103
	(0.97%)*	(78.64%)	(14.56%)	(5.83%)	(0.00%)	(0.00%)	(0.00%)	(100.%)
10 to 14	0	1	0	0	0	0	0	1
	(0.00%)	(100.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(100.%)
15 to 19	0	219	47	15	0	1	0	282
	(0.00%)	(77.66%)	(16.67%)	(5.32%)	(0.00%)	(0.35%)	(0.00%)	(100.%)
20 to 24	0	222	64	9	0	3	0	298
	(0.00%)	(74.50%)	(21.48%)	(3.02%)	(0.00%)	(1.01%)	(0.00%)	(100.%)
25 to 34	0	298	81	15	0	1	2	397
	(0.00%)	(75.06%)	(20.40%)	(3.78%)	(0.00%)	(0.25%)	(0.50%)	(100.%)
35 to 44	0	258	59	16	1	4	0	338
	(0.00%)	(76.33%)	(17.46%)	(4.73%)	(0.30%)	(1.18%)	(0.00%)	(100.%)
45 to 54	0	153	30	9	0	1	0	193
	(0.00%)	(79.27%)	(15.54%)	(4.66%)	(0.00%)	(0.52%)	(0.00%)	(100.%)
55 to 64	0	66	13	4	0	0	0	83
	(0.00%)	(79.52%)	(15.66%)	(4.82%)	(0.00%)	(0.00%)	(0.00%)	(100.%)
65 to 74	0	51	10	2	0	0	0	63
	(0.00%)	(80.95%)	(15.87%)	(3.17%)	(0.00%)	(0.00%)	(0.00%)	(100.%)
75 to 84	0	74	8	2	0	1	0	85
	(0.00%)	(87.06%)	(9.41%)	(2.35%)	(0.00%)	(1.18%)	(0.00%)	(100.%)
85 and older	0	22	3	1	0	0	0	26
	(0.00%)	(84.62%)	(11.54%)	(3.85%)	(0.00%)	(0.00%)	(0.00%)	(100.%)
Fault Not Assigned	9	156	26	11	0	1	1	204
	(4.41%)	(76.47%)	(12.75%)	(5.39%)	(0.00%)	(0.49%)	(0.49%)	(100.%)
Total	10	1601	356	90	1	12	3	2073
	(0.48%)	(77.23%)	(17.17%)	(4.34%)	(0.05%)	(0.58%)	(0.14%)	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 3-4
Number of Motor Vehicle Occupant Crashes in the North County Coastal Region
by Age of Party at Fault and Time of Week
July 1, 1998 to June 30, 1999

Age of Party at Fault	Time of Week								Total	
	Weekday-Daytime		Weekday-Nighttime		Weekend-Daytime		Weekend-Nighttime			
Not Stated	46	(44.66%)*	13	(12.62%)	20	(19.42%)	24	(23.30%)	103	(100.%)
10 to 14	1	(100.00%)	0	(0.00%)	0	(0.00%)	0	(0.00%)	1	(100.%)
15 to 19	132	(46.81%)	47	(16.67%)	44	(15.60%)	59	(20.92%)	282	(100.%)
20 to 24	123	(41.28%)	52	(17.45%)	50	(16.78%)	73	(24.50%)	298	(100.%)
25 to 34	213	(53.65%)	62	(15.62%)	61	(15.37%)	61	(15.37%)	397	(100.%)
35 to 44	202	(59.76%)	48	(14.20%)	42	(12.43%)	46	(13.61%)	338	(100.%)
45 to 54	114	(59.07%)	24	(12.44%)	37	(19.17%)	18	(9.33%)	193	(100.%)
55 to 64	50	(60.24%)	10	(12.05%)	15	(18.07%)	8	(9.64%)	83	(100.%)
65 to 74	45	(71.43%)	4	(6.35%)	14	(22.22%)	0	(0.00%)	63	(100.%)
75 to 84	59	(69.41%)	6	(7.06%)	16	(18.82%)	4	(4.71%)	85	(100.%)
85 and older	18	(69.23%)	3	(11.54%)	3	(11.54%)	2	(7.69%)	26	(100.%)
Fault Not Assigned	114	(55.88%)	28	(13.73%)	38	(18.63%)	24	(11.76%)	204	(100.%)
Total	1117	(53.88%)	297	(14.33%)	340	(16.40%)	319	(15.39%)	2073	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

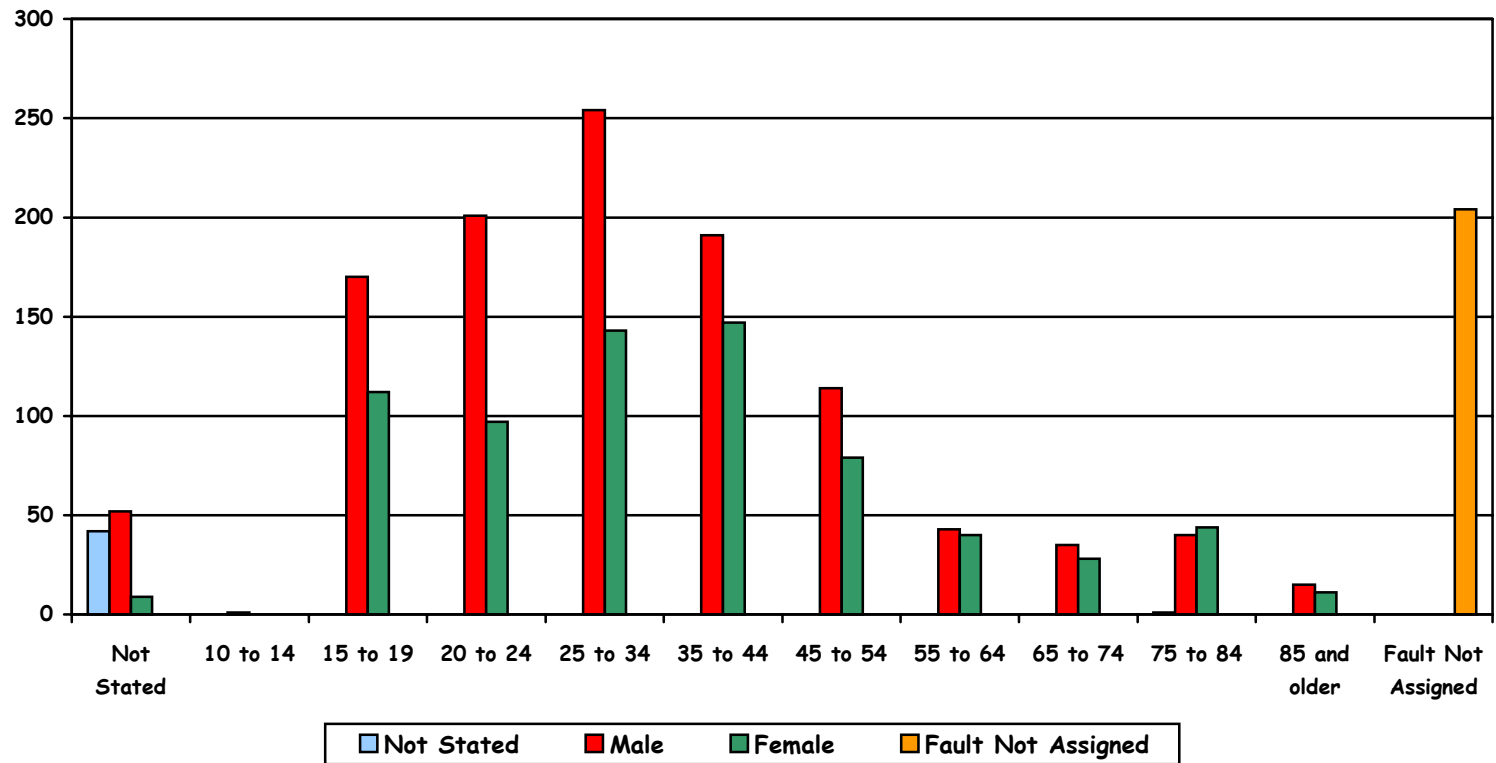
Table 3-5
Number of Motor Vehicle Occupant Crashes in the North County Coastal Region
by Age of Party at Fault and First Road Condition
July 1, 1998 to June 30, 1999

Age of Party at Fault	First Road Condition									Total
	Not Stated	Holes, Deep Ruts	Loose Material on Roadway	Obstruction on Roadway	Construction or Repair Zone	Reduced Roadway Width	Flooded	Other	No Unusual Condition	
Not Stated	3	0	0	1	9	0	0	0	90	103
	(2.91%)*	(0.00%)	(0.00%)	(0.97%)	(8.74%)	(0.00%)	(0.00%)	(0.00%)	(87.38%)	(100.%)
10 to 14	0	0	0	0	0	0	0	0	1	1
	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(100.00%)	(100.%)
15 to 19	5	1	1	2	9	1	0	1	262	282
	(1.77%)	(0.35%)	(0.35%)	(0.71%)	(3.19%)	(0.35%)	(0.00%)	(0.35%)	(92.91%)	(100.%)
20 to 24	1	1	1	2	4	0	0	1	288	298
	(0.34%)	(0.34%)	(0.34%)	(0.67%)	(1.34%)	(0.00%)	(0.00%)	(0.34%)	(96.64%)	(100.%)
25 to 34	1	1	1	2	11	0	1	2	378	397
	(0.25%)	(0.25%)	(0.25%)	(0.50%)	(2.77%)	(0.00%)	(0.25%)	(0.50%)	(95.21%)	(100.%)
35 to 44	7	0	0	2	11	0	0	3	315	338
	(2.07%)	(0.00%)	(0.00%)	(0.59%)	(3.25%)	(0.00%)	(0.00%)	(0.89%)	(93.20%)	(100.%)
45 to 54	1	0	2	0	9	2	1	0	178	193
	(0.52%)	(0.00%)	(1.04%)	(0.00%)	(4.66%)	(1.04%)	(0.52%)	(0.00%)	(92.23%)	(100.%)
55 to 64	2	0	0	1	7	0	0	0	73	83
	(2.41%)	(0.00%)	(0.00%)	(1.20%)	(8.43%)	(0.00%)	(0.00%)	(0.00%)	(87.95%)	(100.%)
65 to 74	0	0	0	0	0	0	0	0	63	63
	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(100.00%)	(100.%)
75 to 84	1	0	0	0	5	0	0	1	78	85
	(1.18%)	(0.00%)	(0.00%)	(0.00%)	(5.88%)	(0.00%)	(0.00%)	(1.18%)	(91.76%)	(100.%)
85 and older	0	0	0	0	2	0	0	0	24	26
	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(7.69%)	(0.00%)	(0.00%)	(0.00%)	(92.31%)	(100.%)
Fault Not Assigned	14	3	2	3	4	1	0	3	174	204
	(6.86%)	(1.47%)	(0.98%)	(1.47%)	(1.96%)	(0.49%)	(0.00%)	(1.47%)	(85.29%)	(100.%)
Total	35	6	7	13	71	4	2	11	1924	2073
	(1.69%)	(0.29%)	(0.34%)	(0.63%)	(3.42%)	(0.19%)	(0.10%)	(0.53%)	(92.81%)	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Figure 3.3
Age and Gender of Party at Fault in Motor Vehicle Occupant Crashes
North County Coastal Region

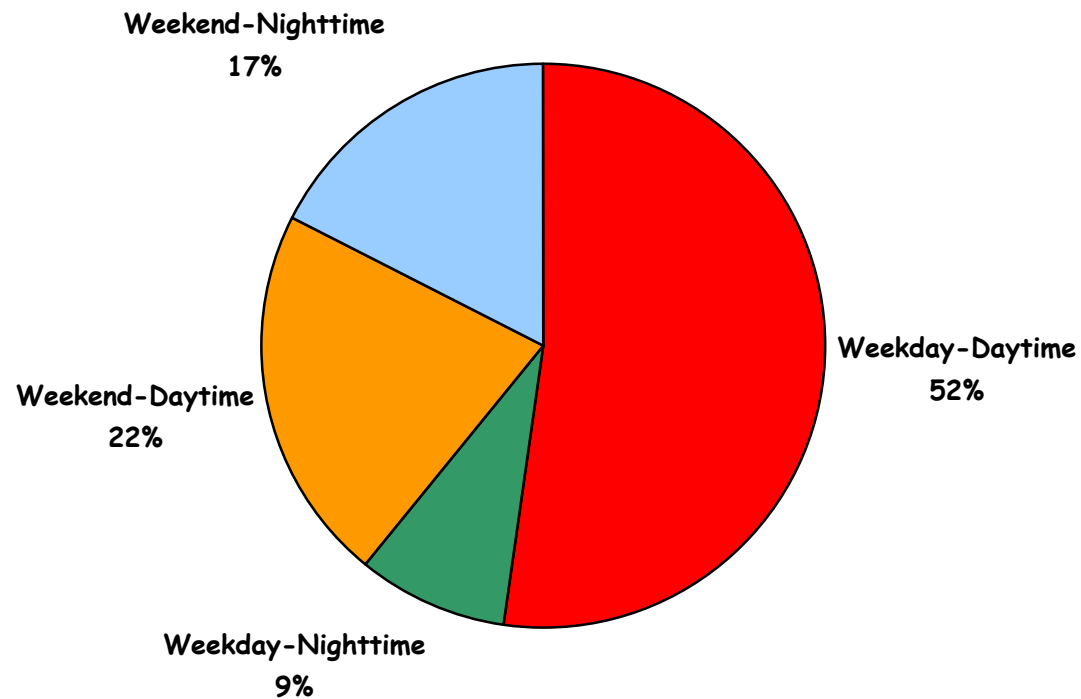


Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

4: MOTORCYCLE VICTIMS

Table 4-1 Leading Causes of Motorcycle Injuries by Age Group of Victim North County Coastal Region							
Age Group of Victim	Rank of Violation Category						Total Number of Victims
	1	2	3	4	5	6	
0-4							0
5-9	*						1
10-14	*						1
15-19	Improper Turning 5	Unsafe Speed 2	*				13
20-24	Unsafe Speed 6	Automobile Right-of-Way 3	DUI Alcohol/Drugs 2†	Other Than Driver 2†	*		17
25-34	Unsafe Speed 4	Automobile Right-of-Way 3†	DUI Alcohol/Drugs 3†	Improper Turning 2	*		19
35-44	Automobile Right-of-Way 6	Unsafe Speed 5	Unsafe Lane Change 3	Improper Turning 2†	Following Too Closely 2†	*	22
45-54	Automobile Right-of-Way 4	*					11
55-64	Unsafe Speed 2†	Automobile Right-of-Way 2†	Other Than Driver 2†	*			7
65-74							0
75-84							0
85+							0
All Ages	Unsafe Speed 20	Automobile Right-of-Way 18	Improper Turning 11	DUI Alcohol/Drugs 8†	Other Than Driver 8†	Following Too Closely 6	92
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99. * Violation categories leading to a single victim were not ranked. † Tie							

Figure 4.1
Motorcycle Crash Victims by Time of Week
North County Coastal Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 4-2
Number of Motorcycle Victims Killed or Injured in Motorcycle Crashes
in the North County Coastal Region
by Age of Victim and Time of Week
July 1, 1998 to June 30, 1999

Age of Victim	Time of Week								Total	
	Weekday-Daytime		Weekday-Nighttime		Weekend-Daytime		Weekend-Nighttime			
5 to 9	1	(100.00%)*	0	(0.00%)	0	(0.00%)	0	(0.00%)	1	(100.%)
10 to 14	1	(100.00%)	0	(0.00%)	0	(0.00%)	0	(0.00%)	1	(100.%)
15 to 19	9	(69.23%)	0	(0.00%)	2	(15.38%)	2	(15.38%)	13	(100.%)
20 to 24	9	(52.94%)	3	(17.65%)	3	(17.65%)	2	(11.76%)	17	(100.%)
25 to 34	8	(42.11%)	2	(10.53%)	4	(21.05%)	5	(26.32%)	19	(100.%)
35 to 44	11	(50.00%)	1	(4.55%)	4	(18.18%)	6	(27.27%)	22	(100.%)
45 to 54	6	(54.55%)	2	(18.18%)	2	(18.18%)	1	(9.09%)	11	(100.%)
55 to 64	2	(28.57%)	0	(0.00%)	5	(71.43%)	0	(0.00%)	7	(100.%)
Not stated	1	(100.00%)	0	(0.00%)	0	(0.00%)	0	(0.00%)	1	(100.%)
Total	48	(52.17%)	8	(8.70%)	20	(21.74%)	16	(17.39%)	92	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

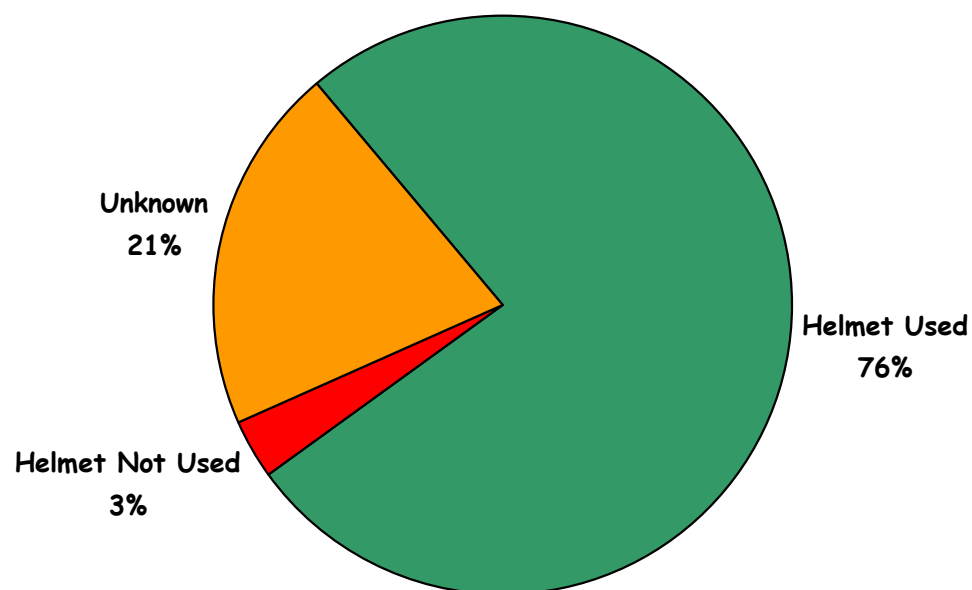
Table 4-3
Number of Motorcycle Victims Killed or Injured in Motorcycle Crashes
in the North County Coastal Region
by Type of Collision and Severity of Injury
July 1, 1998 to June 30, 1999

Type of Collision	Severity of Injury								Total	
	Killed		Severe Injury		Other Visible Injury		Complaint of Pain			
Head-on	0	(0.00%)*	1	(33.33%)	2	(66.67%)	0	(0.00%)	3	(100.%)
Sideswipe	0	(0.00%)	1	(7.14%)	8	(57.14%)	5	(35.71%)	14	(100.%)
Rear-end	0	(0.00%)	1	(5.26%)	7	(36.84%)	11	(57.89%)	19	(100.%)
Broadside	0	(0.00%)	7	(31.82%)	7	(31.82%)	8	(36.36%)	22	(100.%)
Hit Object	1	(7.69%)	3	(23.08%)	7	(53.85%)	2	(15.38%)	13	(100.%)
Overtuned	0	(0.00%)	2	(12.50%)	12	(75.00%)	2	(12.50%)	16	(100.%)
Other	0	(0.00%)	0	(0.00%)	2	(40.00%)	3	(60.00%)	5	(100.%)
Total	1	(1.09%)	15	(16.30%)	45	(48.91%)	31	(33.70%)	92	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Figure 4.2
Helmet Use Among Motorcycle Crash Victims
North County Coastal Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 4-4
Number of Motorcycle Victims Killed or Injured in Motorcycle Crashes
in the North County Coastal Region
by Age of Victim and Helmet Use
July 1, 1998 to June 30, 1999

Age of Victim	Helmet Use						Total	
	Helmet Used		Helmet Not Used		Unknown			
5 to 9	1	(100.00%)*	0	(0.00%)	0	(0.00%)	1	(100.%)
10 to 14	0	(0.00%)	0	(0.00%)	1	(100.00%)	1	(100.%)
15 to 19	10	(76.92%)	1	(7.69%)	2	(15.38%)	13	(100.%)
20 to 24	12	(70.59%)	0	(0.00%)	5	(29.41%)	17	(100.%)
25 to 34	14	(73.68%)	0	(0.00%)	5	(26.32%)	19	(100.%)
35 to 44	20	(90.91%)	0	(0.00%)	2	(9.09%)	22	(100.%)
45 to 54	9	(81.82%)	0	(0.00%)	2	(18.18%)	11	(100.%)
55 to 64	4	(57.14%)	2	(28.57%)	1	(14.29%)	7	(100.%)
Not stated	0	(0.00%)	0	(0.00%)	1	(100.00%)	1	(100.%)
Total	70	(76.09%)	3	(3.26%)	19	(20.65%)	92	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

5: MOTORCYCLE CRASHES

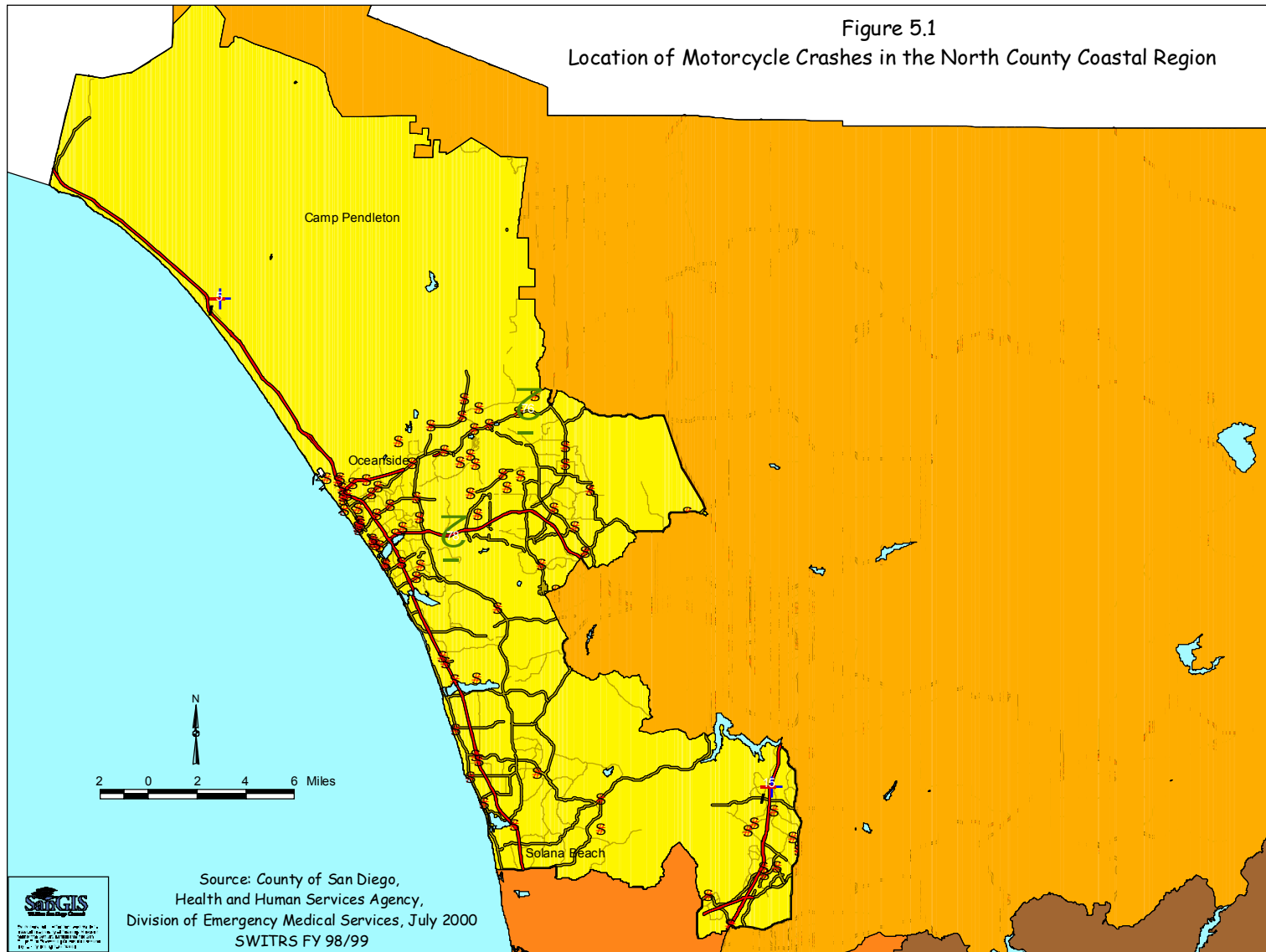


Table 5-1
Leading Violation Categories in Motorcycle Crashes by Type of Party at Fault
North County Coastal Region

Type of Party at Fault	Rank of Violation Category						Total Number of Crashes
	1	2	3	4	5	6	
Motorcycle at Fault	Unsafe Speed 15	DUI Alcohol/Drugs 4	Improper Turning 3†	Following Too Closely 3†	Automobile Right-of-Way 2†	Traffic Signals & Signs 2†	34
Other Party at Fault	Automobile Right-of-Way 15	Improper Turning 6	Unsafe Speed 3†	Unsafe Lane Change 3†	**		36
Fault Not Assigned	Other Than Driver 6	DUI Alcohol/Drugs 2	*				17
All Crashes	Unsafe Speed 19	Automobile Right-of-Way 17	Improper Turning 10	DUI Alcohol/Drugs 8	Following Too Closely 6†	Other Than Driver 6†	87

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

* Violation categories leading to a single crash were not ranked.

** Multiple violation categories with the same number of victims were not listed due to space limitations.

† Tie

Table 5-2
Number of Motorcycle Crashes in the North County Coastal Region
by Collision Type and Type of Party at Fault
July 1, 1998 to June 30, 1999

Collision Type	Fault in Motorcycle Crash						Total	
	Motorcycle at Fault		Other Party at Fault		Fault Not Assigned			
Head-on	1	(33.33%)*	1	(33.33%)	1	(33.33%)	3	(100.%)
Sideswipe	3	(23.08%)	8	(61.54%)	2	(15.38%)	13	(100.%)
Rear-end	5	(26.32%)	11	(57.89%)	3	(15.79%)	19	(100.%)
Broadside	6	(28.57%)	13	(61.90%)	2	(9.52%)	21	(100.%)
Hit Object	10	(76.92%)	0	(0.00%)	3	(23.08%)	13	(100.%)
Overturned	9	(64.29%)	2	(14.29%)	3	(21.43%)	14	(100.%)
Other	0	(0.00%)	1	(25.00%)	3	(75.00%)	4	(100.%)
Total	34	(39.08%)	36	(41.38%)	17	(19.54%)	87	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 5-3
Number of Motorcycle Crashes in the North County Coastal Region
by First Weather Condition and Type of Party at Fault
July 1, 1998 to June 30, 1999

First Weather Condition	Fault in Motorcycle Crash						Total	
	Motorcycle at Fault		Other Party at Fault		Fault Not Assigned			
Clear	29	(38.67%)*	32	(42.67%)	14	(18.67%)	75	(100.%)
Cloudy	4	(40.00%)	4	(40.00%)	2	(20.00%)	10	(100.%)
Raining	0	(0.00%)	0	(0.00%)	1	(100.00%)	1	(100.%)
Fog	1	(100.00%)	0	(0.00%)	0	(0.00%)	1	(100.%)
Total	34	(39.08%)	36	(41.38%)	17	(19.54%)	87	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 5-4
Number of Motorcycle Crashes in the North County Coastal Region
by Time of Week and Type of Party at Fault
July 1, 1998 to June 30, 1999

Time of Week	Fault in Motorcycle Crash						Total	
	Motorcycle at Fault		Other Party at Fault		Fault Not Assigned			
Weekday-Daytime	18	(39.13%)*	19	(41.30%)	9	(19.57%)	46	(100.%)
Weekday-Nighttime	5	(71.43%)	1	(14.29%)	1	(14.29%)	7	(100.%)
Weekend-Daytime	6	(33.33%)	11	(61.11%)	1	(5.56%)	18	(100.%)
Weekend-Nighttime	5	(31.25%)	5	(31.25%)	6	(37.50%)	16	(100.%)
Total	34	(39.08%)	36	(41.38%)	17	(19.54%)	87	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 5-5
Number of Motorcycle Crashes in the North County Coastal Region
by First Road Condition and Type of Party at Fault
July 1, 1998 to June 30, 1999

First Road Condition	Fault in Motorcycle Crash						Total	
	Motorcycle at Fault		Other Party at Fault		Fault Not Assigned			
Not Stated	0	(0.00%)*	1	(100.00%)	0	(0.00%)	1	(100.%)
Loose Material on Roadway	0	(0.00%)	0	(0.00%)	1	(100.00%)	1	(100.%)
Obstruction on Roadway	0	(0.00%)	1	(100.00%)	0	(0.00%)	1	(100.%)
Construction or Repair Zone	1	(100.00%)	0	(0.00%)	0	(0.00%)	1	(100.%)
No Unusual Condition	33	(39.76%)	34	(40.96%)	16	(19.28%)	83	(100.%)
Total	34	(39.08%)	36	(41.38%)	17	(19.54%)	87	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 5-6
Number of Motorcycle Crashes in the North County Coastal Region
by Age and Gender of Party at Fault and Type of Party at Fault
July 1, 1998 to June 30, 1999

Age of Party at Fault	Fault in Motorcycle Crash†					
	Motorcycle at Fault			Other Party at Fault		
	Gender of Party at Fault††			Gender of Party at Fault††		
	Male		Female	Male		Female
Not Stated	1	(2.94%)*	0	0	(0.00%)*	0
5 to 9	1	(2.94%)*	0	0	(0.00%)*	0
15 to 19	5	(14.71%)*	0	1	(2.94%)*	2
20 to 24	8	(23.53%)*	0	6	(17.65%)*	3
25 to 34	6	(17.65%)*	0	4	(11.76%)*	1
35 to 44	7	(20.59%)*	0	4	(11.76%)*	1
45 to 54	3	(8.82%)*	0	3	(8.82%)*	1
55 to 64	3	(8.82%)*	0	2	(5.88%)*	0
65 to 74	0	(0.00%)*	0	2	(5.88%)*	1
75 to 84	0	(0.00%)*	0	1	(2.94%)*	0
85 and older	0	(0.00%)*	0	1	(2.94%)*	0
Total	34	(100.00%)*	0	25	(73.53%)*	9

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are age and gender percents.

†Fault was not assigned in 17 crashes.

††Gender of party at fault was not stated for 2 other parties.

6: PEDALCYCLE VICTIMS

Table 6-1
Leading Causes of Pedalcycle Injuries by Age Group of Victim
North County Coastal Region

Age Group of Victim	Rank of Violation Category						Total Number of Victims
	1	2	3	4	5	6	
0-4							0
5-9	Automobile Right-of-Way 5	*					10
10-14	Wrong Side of Road 2†	Other Improper Driving 2†	*				9
15-19	Automobile Right-of-Way 2†	Wrong Side of Road 2†	*				8
20-24	Automobile Right-of-Way 2†	DUI Alcohol/Drugs 2†	*				10
25-34	Automobile Right-of-Way 3†	Unsafe Speed 3†	Improper Turning 2†	Wrong Side of Road 2†	Other Hazardous Viol. 2†	*	16
35-44	Automobile Right-of-Way 6	Improper Turning 5	Other Hazardous Viol. 3	*			19
45-54	Improper Turning 2†	Wrong Side of Road 2†	DUI Alcohol/Drugs 2†	*			8
55-64	*						3
65-74	Automobile Right-of-Way 2†	Improper Turning 2†	*				4
75-84	*						1
85+							0
All Ages	Automobile Right-of-Way 22	Improper Turning 14	Wrong Side of Road 11	Other Hazardous Viol. 10	Unsafe Speed 6	DUI Alcohol/Drugs 5	88

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

* Violation categories leading to a single victim were not ranked.

** Multiple violation categories with the same number of victims were not listed due to space limitations.

† Tie

Table 6-2
Number of Pedalcycle Victims Killed or Injured in Pedalcycle Crashes
in the North County Coastal Region
by Age of Victim and Time of Week
July 1, 1998 to June 30, 1999

Age of Victim	Time of Week								Total	
	Weekday-Daytime		Weekday-Nighttime		Weekend-Daytime		Weekend-Nighttime			
5 to 9	3	(30.00%)*	3	(30.00%)	3	(30.00%)	1	(10.00%)	10	(100.%)
10 to 14	3	(33.33%)	1	(11.11%)	1	(11.11%)	4	(44.44%)	9	(100.%)
15 to 19	6	(75.00%)	1	(12.50%)	0	(0.00%)	1	(12.50%)	8	(100.%)
20 to 24	4	(40.00%)	3	(30.00%)	3	(30.00%)	0	(0.00%)	10	(100.%)
25 to 34	10	(62.50%)	1	(6.25%)	4	(25.00%)	1	(6.25%)	16	(100.%)
35 to 44	8	(42.11%)	4	(21.05%)	7	(36.84%)	0	(0.00%)	19	(100.%)
45 to 54	3	(37.50%)	2	(25.00%)	3	(37.50%)	0	(0.00%)	8	(100.%)
55 to 64	1	(33.33%)	0	(0.00%)	1	(33.33%)	1	(33.33%)	3	(100.%)
65 to 74	2	(50.00%)	0	(0.00%)	2	(50.00%)	0	(0.00%)	4	(100.%)
75 to 84	1	(100.00%)	0	(0.00%)	0	(0.00%)	0	(0.00%)	1	(100.%)
Total	41	(46.59%)	15	(17.05%)	24	(27.27%)	8	(9.09%)	88	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

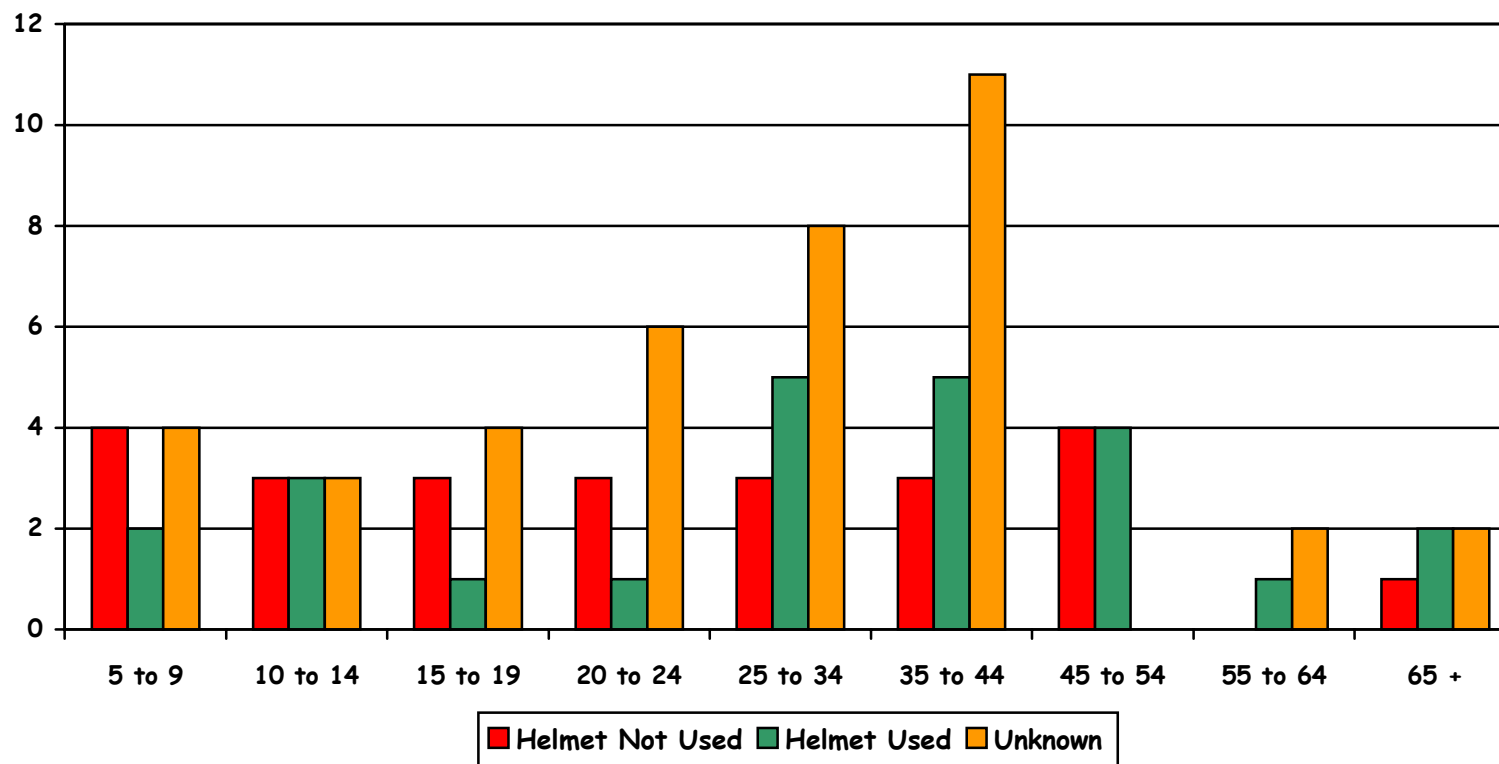
Table 6-3
Number of Pedalcycle Victims Killed or Injured in Pedalcycle Crashes
in the North County Coastal Region
by Age of Victim and First Weather Condition
July 1, 1998 to June 30, 1999

Age of Victim	First Weather Condition				Total
	Not Stated	Clear	Cloudy	Fog	
5 to 9	0 (0.00%)*	9 (90.00%)	1 (10.00%)	0 (0.00%)	10 (100.%)
10 to 14	0 (0.00%)	7 (77.78%)	1 (11.11%)	1 (11.11%)	9 (100.%)
15 to 19	0 (0.00%)	6 (75.00%)	2 (25.00%)	0 (0.00%)	8 (100.%)
20 to 24	1 (10.00%)	6 (60.00%)	3 (30.00%)	0 (0.00%)	10 (100.%)
25 to 34	0 (0.00%)	15 (93.75%)	1 (6.25%)	0 (0.00%)	16 (100.%)
35 to 44	0 (0.00%)	17 (89.47%)	2 (10.53%)	0 (0.00%)	19 (100.%)
45 to 54	0 (0.00%)	7 (87.50%)	1 (12.50%)	0 (0.00%)	8 (100.%)
55 to 64	0 (0.00%)	2 (66.67%)	1 (33.33%)	0 (0.00%)	3 (100.%)
65 to 74	0 (0.00%)	4 (100.00%)	0 (0.00%)	0 (0.00%)	4 (100.%)
75 to 84	0 (0.00%)	1 (100.00%)	0 (0.00%)	0 (0.00%)	1 (100.%)
Total	1 (1.14%)	74 (84.09%)	12 (13.64%)	1 (1.14%)	88 (100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Figure 6.1
Helmet Use by Age of Pedalcyclist Crash Victims
North County Coastal Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 6-4
Number of Pedalcycle Victims Killed or Injured in Pedalcycle Crashes
in the North County Coastal Region
by Helmet Use and Severity of Injury
July 1, 1998 to June 30, 1999

Helmet Use	Severity of Injury								Total	
	Killed		Severe Injury		Other Visible Injury		Complaint of Pain			
Helmet Used	0	(0.00%)*	2	(8.33%)	17	(70.83%)	5	(20.83%)	24	(100.%)
Helmet Not Used	1	(4.17%)	1	(4.17%)	14	(58.33%)	8	(33.33%)	24	(100.%)
Unknown	0	(0.00%)	4	(10.00%)	22	(55.00%)	14	(35.00%)	40	(100.%)
Total	1	(1.14%)	7	(7.95%)	53	(60.23%)	27	(30.68%)	88	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

7: PEDALCYCLE CRASHES

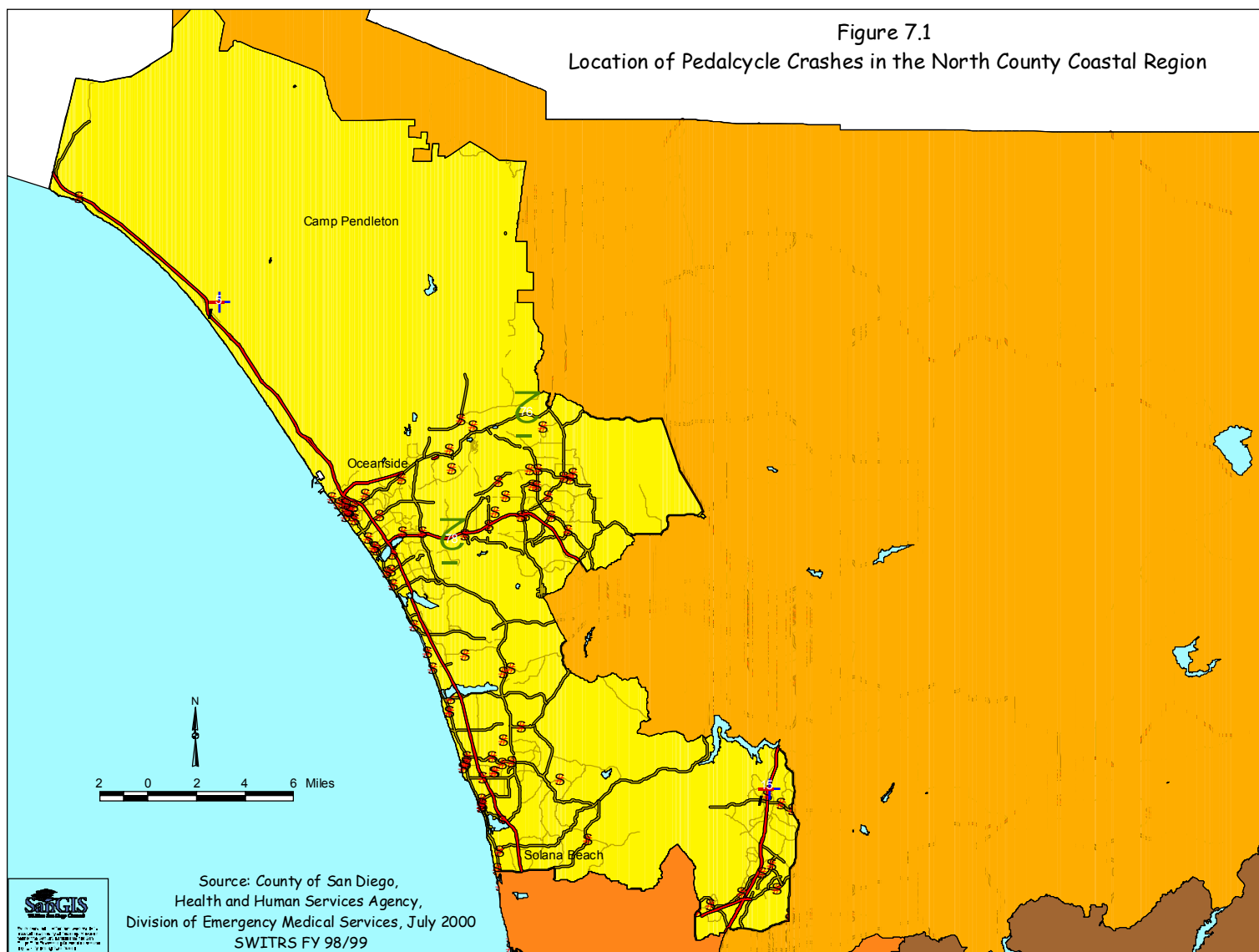


Table 7-1
Leading Violation Categories in Pedalcycle Crashes by Type of Party at Fault
North County Coastal Region

Type of Party at Fault	Rank of Violation Category						Total Number of Crashes
	1	2	3	4	5	6	
Pedalcycle at Fault	Wrong Side of Road 11	Automobile Right-of-Way 10	Improper Turning 6	Other Hazardous Viol. 5	DUI Alcohol/Drugs 4	**	50
Other Party at Fault	Automobile Right-of-Way 10	Improper Turning 8	Other Hazardous Viol. 4	Unsafe Speed 2	*		28
Fault Not Assigned	Automobile Right-of-Way 2	*					10
All Crashes	Automobile Right-of-Way 22	Improper Turning 14	Wrong Side of Road 11	Other Hazardous Viol. 10	Unsafe Speed 6	DUI Alcohol/Drugs 5	88

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

* Violation categories leading to a single crash were not ranked.

** Multiple violation categories with the same number of victims were not listed due to space limitations.

Table 7-2
Number of Pedalcycle Crashes in the North County Coastal Region
by First Weather Condition and Type of Party at Fault
July 1, 1998 to June 30, 1999

First Weather Condition	Fault in Pedalcycle Crash						Total	
	Pedalcycle at Fault		Other Party at Fault		Fault Not Assigned			
Not Stated	0	(0.00%)*	0	(0.00%)	1	(100.00%)	1	(100.%)
Clear	41	(54.67%)	26	(34.67%)	8	(10.67%)	75	(100.%)
Cloudy	8	(72.73%)	2	(18.18%)	1	(9.09%)	11	(100.%)
Fog	1	(100.00%)	0	(0.00%)	0	(0.00%)	1	(100.%)
Total	50	(56.82%)	28	(31.82%)	10	(11.36%)	88	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 7-3
Number of Pedalcycle Crashes in the North County Coastal Region
by Time of Week and Type of Party at Fault
July 1, 1998 to June 30, 1999

Time of Week	Fault in Pedalcycle Crash						Total	
	Pedalcycle at Fault		Other Party at Fault		Fault Not Assigned			
Weekday-Daytime	21	(52.50%)*	16	(40.00%)	3	(7.50%)	40	(100.%)
Weekday-Nighttime	11	(73.33%)	3	(20.00%)	1	(6.67%)	15	(100.%)
Weekend-Daytime	14	(58.33%)	7	(29.17%)	3	(12.50%)	24	(100.%)
Weekend-Nighttime	4	(44.44%)	2	(22.22%)	3	(33.33%)	9	(100.%)
Total	50	(56.82%)	28	(31.82%)	10	(11.36%)	88	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 7-4
Number of Pedalcycle Crashes in the North County Coastal Region
by First Road Condition and Type of Party at Fault
July 1, 1998 to June 30, 1999

First Road Condition	Fault in Pedalcycle Crash						Total	
	Pedalcycle at Fault		Other Party at Fault		Fault Not Assigned			
Not Stated	2	(50.00%)*	0	(0.00%)	2	(50.00%)	4	(100.%)
Holes, Deep Ruts	1	(100.00%)	0	(0.00%)	0	(0.00%)	1	(100.%)
Loose Material on Roadway	1	(100.00%)	0	(0.00%)	0	(0.00%)	1	(100.%)
Construction or Repair Zone	2	(100.00%)	0	(0.00%)	0	(0.00%)	2	(100.%)
Reduced Roadway Width	0	(0.00%)	0	(0.00%)	1	(100.00%)	1	(100.%)
No Unusual Condition	44	(55.70%)	28	(35.44%)	7	(8.86%)	79	(100.%)
Total	50	(56.82%)	28	(31.82%)	10	(11.36%)	88	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 7-5
Number of Pedalcycle Crashes in the North County Coastal Region
by Age and Gender of Party at Fault and Type of Party at Fault
July 1, 1998 to June 30, 1999

Age of Party at Fault	Fault in Pedalcycle Crash†							
	Pedalcycle at Fault				Other Party at Fault			
	Gender of Party at Fault††				Gender of Party at Fault††			
	Male		Female		Male		Female	
5 to 9	8	(16.00%)*	1	(2.00%)	0	(0.00%)	0	(0.00%)
10 to 14	4	(8.00%)	3	(6.00%)	0	(0.00%)	0	(0.00%)
15 to 19	5	(10.00%)	0	(0.00%)	3	(11.54%)	2	(7.69%)
20 to 24	7	(14.00%)	0	(0.00%)	1	(3.85%)	0	(0.00%)
25 to 34	5	(10.00%)	2	(4.00%)	3	(11.54%)	2	(7.69%)
35 to 44	5	(10.00%)	1	(2.00%)	4	(15.38%)	2	(7.69%)
45 to 54	2	(4.00%)	2	(4.00%)	3	(11.54%)	1	(3.85%)
55 to 64	2	(4.00%)	0	(0.00%)	4	(15.38%)	0	(0.00%)
65 to 74	3	(6.00%)	0	(0.00%)	0	(0.00%)	0	(0.00%)
75 to 84	0	(0.00%)	0	(0.00%)	0	(0.00%)	1	(3.85%)
Total	41	(82.00%)	9	(18.00%)	18	(69.23%)	8	(30.77%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are age and gender percents.

†Fault was not assigned in 10 crashes.

††Gender of party at fault was not stated for 2 other parties.

8: PEDESTRIAN VICTIMS

Table 8-1
Leading Causes of Pedestrian Injuries by Age Group of Victim
North County Coastal Region

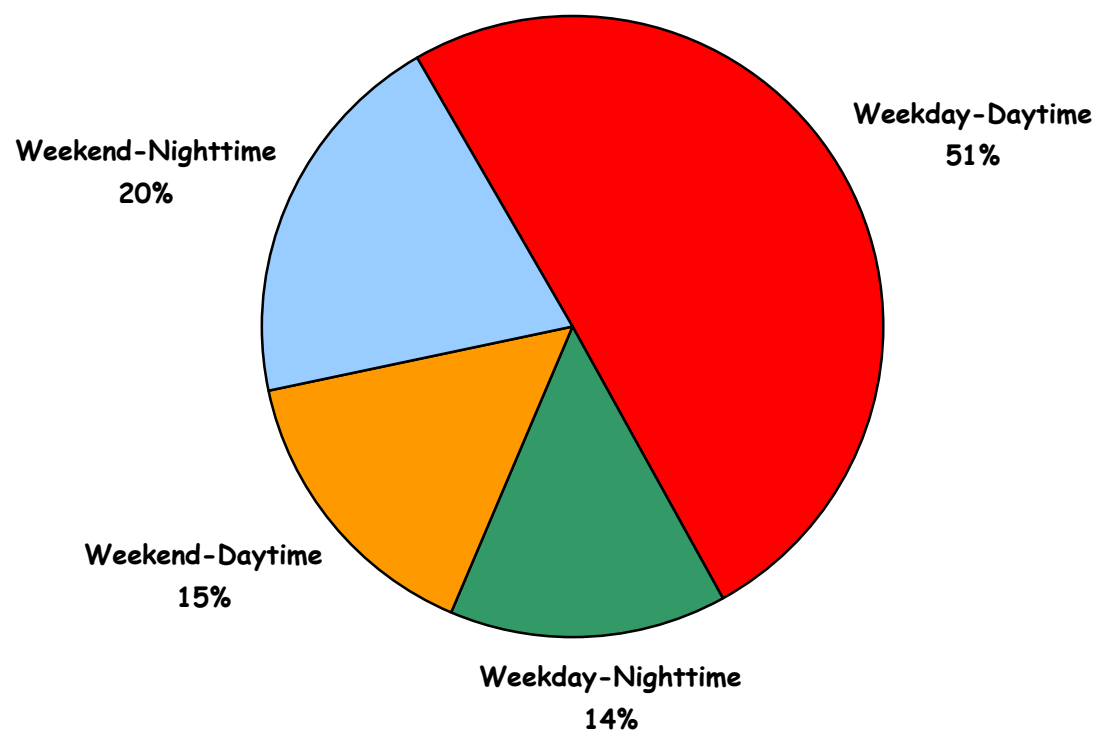
Age Group of Victim	Rank of Violation Category						Total Number of Victims
	1	2	3	4	5	6	
0-4	Pedestrian Violation 7	DUI Alcohol/Drugs 3	Pedestrian Right-of-Way 2	*			13
5-9	Pedestrian Violation 11	Unsafe Start/Backup 4	Pedestrian Right-of-Way 3	*			21
10-14	Pedestrian Violation 13	Pedestrian Right-of-Way 4	*				21
15-19	Pedestrian Violation 8	Pedestrian Right-of-Way 6	*				18
20-24	Pedestrian Violation 4	Pedestrian Right-of-Way 3	Unsafe Speed 2	*			12
25-34	Pedestrian Violation 5	Pedestrian Right-of-Way 3	*				16
35-44	Pedestrian Right-of-Way 8	Pedestrian Violation 6	*				21
45-54	Pedestrian Violation 7	*					13
55-64	Pedestrian Right-of-Way 4	Pedestrian Violation 2	*				9
65-74	Pedestrian Right-of-Way 3	Pedestrian Violation 2	*				8
75-84	Pedestrian Violation 3	*					4
85+	*						1
All Ages	Pedestrian Violation 69	Pedestrian Right-of-Way 36	Unsafe Start/Backup 7	DUI Alcohol/Drugs 6	*		159

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

* Violation categories leading to a single victim were not ranked.

† Tie

Figure 8.1
Pedestrian Crash Victims by Time of Week
North County Coastal Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

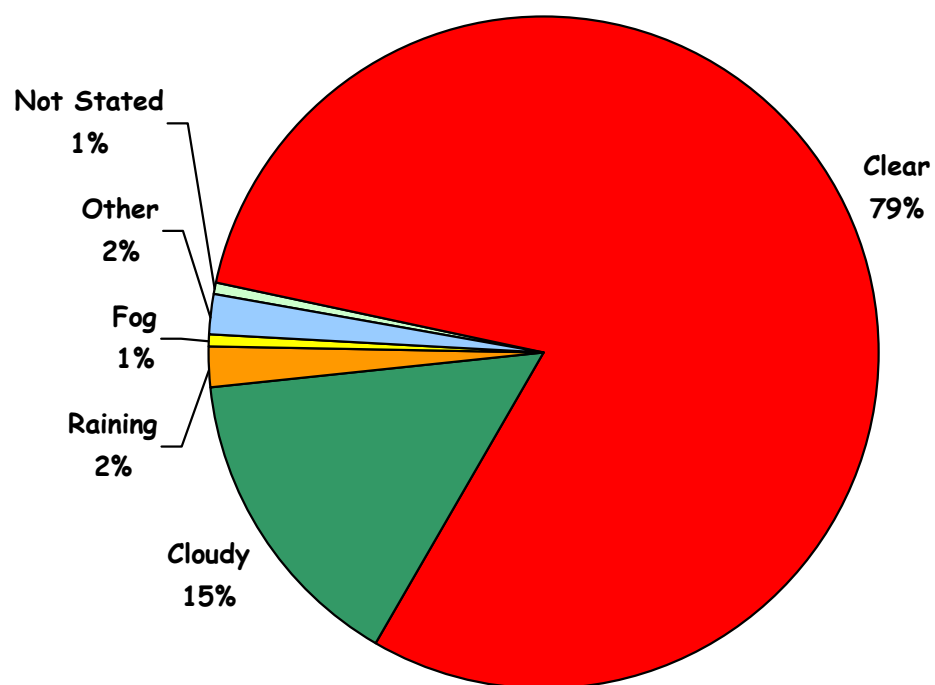
Table 8-2
Number of Pedestrian Victims Killed or Injured in Pedestrian Crashes
in the North County Coastal Region
by Age of Victim and Time of Week
July 1, 1998 to June 30, 1999

Age of Victim	Time of Week								Total	
	Weekday-Daytime		Weekday-Nighttime		Weekend-Daytime		Weekend-Nighttime			
1 to 4	4	(30.77%)*	1	(7.69%)	4	(30.77%)	4	(30.77%)	13	(100.%)
5 to 9	9	(42.86%)	3	(14.29%)	6	(28.57%)	3	(14.29%)	21	(100.%)
10 to 14	16	(76.19%)	1	(4.76%)	2	(9.52%)	2	(9.52%)	21	(100.%)
15 to 19	12	(66.67%)	0	(0.00%)	3	(16.67%)	3	(16.67%)	18	(100.%)
20 to 24	4	(33.33%)	2	(16.67%)	1	(8.33%)	5	(41.67%)	12	(100.%)
25 to 34	7	(43.75%)	4	(25.00%)	1	(6.25%)	4	(25.00%)	16	(100.%)
35 to 44	7	(33.33%)	6	(28.57%)	2	(9.52%)	6	(28.57%)	21	(100.%)
45 to 54	6	(46.15%)	2	(15.38%)	3	(23.08%)	2	(15.38%)	13	(100.%)
55 to 64	5	(55.56%)	3	(33.33%)	1	(11.11%)	0	(0.00%)	9	(100.%)
65 to 74	7	(87.50%)	0	(0.00%)	0	(0.00%)	1	(12.50%)	8	(100.%)
75 to 84	3	(75.00%)	0	(0.00%)	1	(25.00%)	0	(0.00%)	4	(100.%)
85 and older	0	(0.00%)	1	(100.00%)	0	(0.00%)	0	(0.00%)	1	(100.%)
Not stated	0	(0.00%)	0	(0.00%)	0	(0.00%)	2	(100.00%)	2	(100.%)
Total	80	(50.31%)	23	(14.47%)	24	(15.09%)	32	(20.13%)	159	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Figure 8.2
Pedestrian Crash Victims by First Weather Condition
North County Coastal Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 8-3
Number of Pedestrian Victims Killed or Injured in Pedestrian Crashes
in the North County Coastal Region
by Age of Victim and Type of Party at Fault
July 1, 1998 to June 30, 1999

Age of Victim	Fault in Pedestrian Crash						Total	
	Pedestrian at Fault		Other Party at Fault		Fault Not Assigned			
1 to 4	8	(61.54%)*	5	(38.46%)	0	(0.00%)	13	(100.%)
5 to 9	11	(52.38%)	5	(23.81%)	5	(23.81%)	21	(100.%)
10 to 14	12	(57.14%)	6	(28.57%)	3	(14.29%)	21	(100.%)
15 to 19	8	(44.44%)	8	(44.44%)	2	(11.11%)	18	(100.%)
20 to 24	4	(33.33%)	6	(50.00%)	2	(16.67%)	12	(100.%)
25 to 34	6	(37.50%)	7	(43.75%)	3	(18.75%)	16	(100.%)
35 to 44	5	(23.81%)	11	(52.38%)	5	(23.81%)	21	(100.%)
45 to 54	7	(53.85%)	4	(30.77%)	2	(15.38%)	13	(100.%)
55 to 64	1	(11.11%)	8	(88.89%)	0	(0.00%)	9	(100.%)
65 to 74	1	(12.50%)	6	(75.00%)	1	(12.50%)	8	(100.%)
75 to 84	2	(50.00%)	2	(50.00%)	0	(0.00%)	4	(100.%)
85 and older	1	(100.00%)	0	(0.00%)	0	(0.00%)	1	(100.%)
Not stated	1	(50.00%)	0	(0.00%)	1	(50.00%)	2	(100.%)
Total	67	(42.14%)	68	(42.77%)	24	(15.09%)	159	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

9: PEDESTRIAN CRASHES

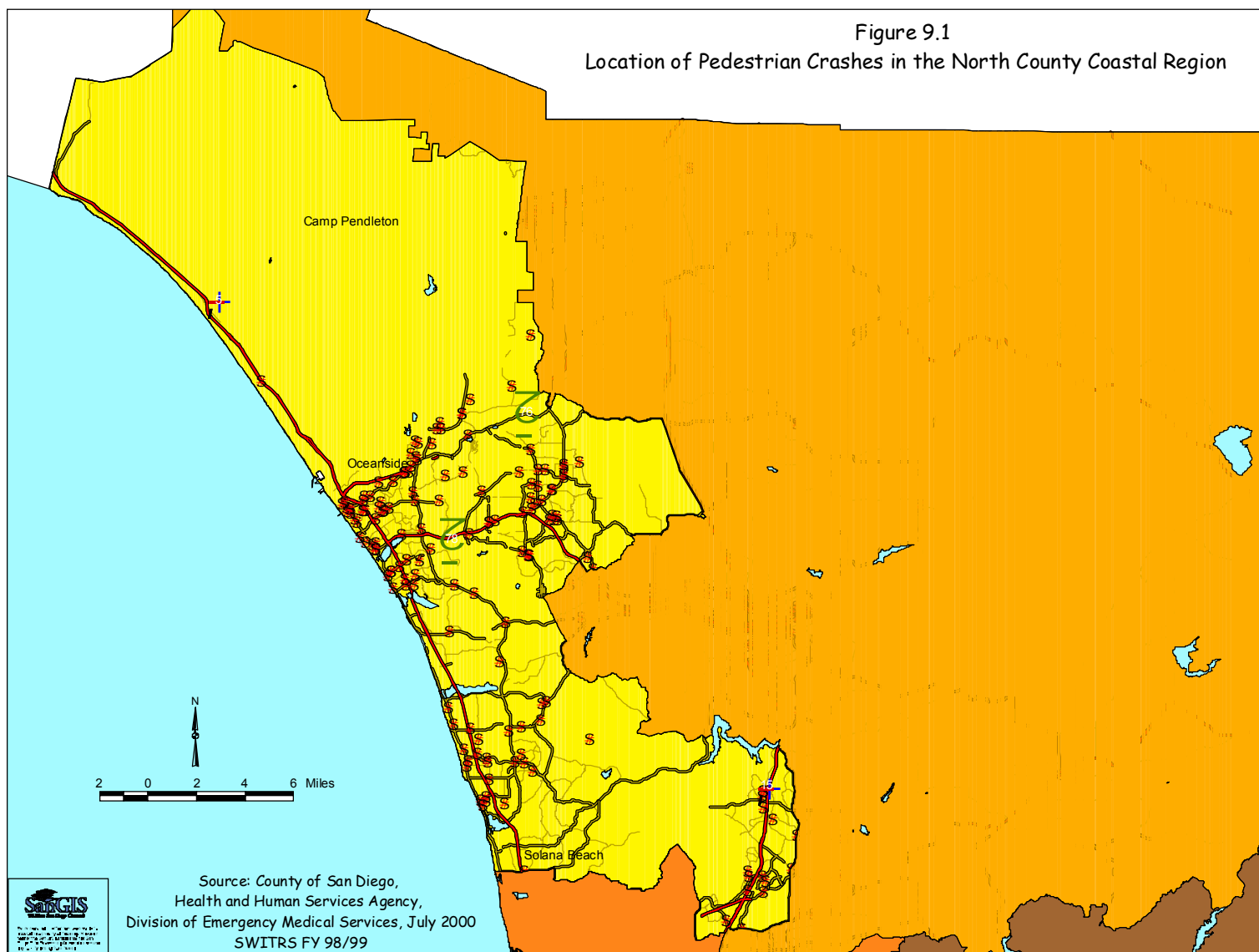


Table 9-1
Leading Violation Categories in Pedestrian Crashes by Age of Party at Fault
North County Coastal Region

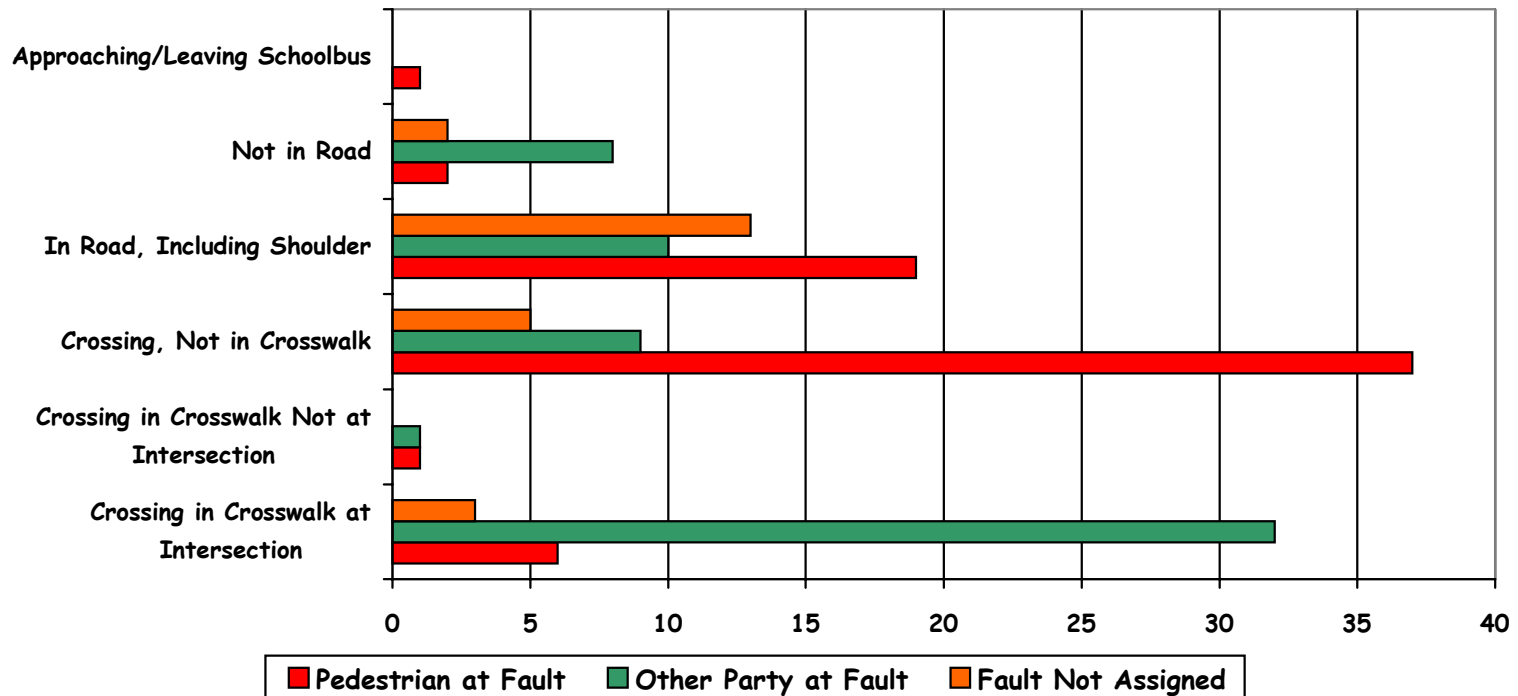
Age of Party at Fault	Rank of Violation Category						Total Number of Crashes
	1	2	3	4	5	6	
0-4	Pedestrian Violation 6						6
5-9	Pedestrian Violation 10	*					11
10-14	Pedestrian Violation 11						11
15-19	Pedestrian Violation 7	Pedestrian Right-of-Way 3					10
20-24	Pedestrian Violation 5	Pedestrian Right-of-Way 4	*				11
25-34	Pedestrian Right-of-Way 5	Pedestrian Violation 4	Unsafe Start/Backup 2	*			15
35-44	Pedestrian Violation 4	Pedestrian Right-of-Way 3	Unsafe Start/Backup 2†	Automobile Right-of-Way 2†	*		15
45-54	Pedestrian Violation 7	Pedestrian Right-of-Way 5	Unsafe Start/Backup 2†	Unsafe Speed 2†	*		17
55-64	Pedestrian Right-of-Way 3	*					5
65-74	Pedestrian Violation 2						2
75-84	Pedestrian Violation 2	*					4
85+	*						1
All Crashes	Pedestrian Violation 68	Pedestrian Right-of-Way 32	Unsafe Start/Backup 7	Improper Turning 4†	Peds UI Alcohol/Drugs 4†	Unsafe Speed 4†	149

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

* Violation categories leading to a single crash were not ranked.

† Tie

Figure 9.2
Pedestrian Action by Type of Party at Fault
North County Coastal Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 9-2a
Number of Pedestrian Crashes in the North County Coastal Region
by Age of Party at Fault and Pedestrian Action
In Crashes Where the Pedestrian Was At Fault†
July 1, 1998 to June 30, 1999

Age of Party at Fault	Pedestrian Action						Total
	Crossing in Crosswalk at Intersection	Crossing in Crosswalk Not at Intersection	Crossing, Not in Crosswalk	In Road, Including Shoulder	Not in Road	Approaching/ Leaving Schoolbus	
Not Stated	0	0	2	3	0	0	5
	(0.00%)*	(0.00%)	(40.00%)	(60.00%)	(0.00%)	(0.00%)	(100.%)
1 to 4	0	0	6	0	0	0	6
	(0.00%)	(0.00%)	(100.00%)	(0.00%)	(0.00%)	(0.00%)	(100.%)
5 to 9	0	1	10	0	0	0	11
	(0.00%)	(9.09%)	(90.91%)	(0.00%)	(0.00%)	(0.00%)	(100.%)
10 to 14	2	0	5	2	1	1	11
	(18.18%)	(0.00%)	(45.45%)	(18.18%)	(9.09%)	(9.09%)	(100.%)
15 to 19	0	0	5	2	0	0	7
	(0.00%)	(0.00%)	(71.43%)	(28.57%)	(0.00%)	(0.00%)	(100.%)
20 to 24	1	0	1	1	1	0	4
	(25.00%)	(0.00%)	(25.00%)	(25.00%)	(25.00%)	(0.00%)	(100.%)
25 to 34	0	0	1	4	0	0	5
	(0.00%)	(0.00%)	(20.00%)	(80.00%)	(0.00%)	(0.00%)	(100.%)
35 to 44	1	0	2	2	0	0	5
	(20.00%)	(0.00%)	(40.00%)	(40.00%)	(0.00%)	(0.00%)	(100.%)
45 to 54	1	0	2	4	0	0	7
	(14.29%)	(0.00%)	(28.57%)	(57.14%)	(0.00%)	(0.00%)	(100.%)
55 to 64	0	0	1	0	0	0	1
	(0.00%)	(0.00%)	(100.00%)	(0.00%)	(0.00%)	(0.00%)	(100.%)
65 to 74	1	0	0	0	0	0	1
	(100.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(100.%)
75 to 84	0	0	2	0	0	0	2
	(0.00%)	(0.00%)	(100.00%)	(0.00%)	(0.00%)	(0.00%)	(100.%)
85 and older	0	0	0	1	0	0	1
	(0.00%)	(0.00%)	(0.00%)	(100.00%)	(0.00%)	(0.00%)	(100.%)
Total	6	1	37	19	2	1	66
	(9.09%)	(1.52%)	(56.06%)	(28.79%)	(3.03%)	(1.52%)	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

†There were 60 crashes where the other party was at fault and 23 crashes where fault was not assigned.

Table 9-2b
Number of Pedestrian Crashes in the North County Coastal Region
by Age of Party at Fault and Pedestrian Action
In Crashes Where the Other Party Was At Fault†
July 1, 1998 to June 30, 1999

Age of Party at Fault	Pedestrian Action						Total
	Crossing in Crosswalk at Intersection	Crossing in Crosswalk Not at Intersection	Crossing, Not in Crosswalk	In Road, Including Shoulder	Not in Road	Approaching/ Leaving Schoolbus	
Not Stated	7	0	2	3	1	0	13
	(53.85%)*	(0.00%)	(15.38%)	(23.08%)	(7.69%)	(0.00%)	(100.%)
15 to 19	3	0	0	0	0	0	3
	(100.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(100.%)
20 to 24	4	0	2	0	1	0	7
	(57.14%)	(0.00%)	(28.57%)	(0.00%)	(14.29%)	(0.00%)	(100.%)
25 to 34	6	0	1	0	3	0	10
	(60.00%)	(0.00%)	(10.00%)	(0.00%)	(30.00%)	(0.00%)	(100.%)
35 to 44	4	0	0	4	2	0	10
	(40.00%)	(0.00%)	(0.00%)	(40.00%)	(20.00%)	(0.00%)	(100.%)
45 to 54	5	0	2	2	1	0	10
	(50.00%)	(0.00%)	(20.00%)	(20.00%)	(10.00%)	(0.00%)	(100.%)
55 to 64	2	1	0	1	0	0	4
	(50.00%)	(25.00%)	(0.00%)	(25.00%)	(0.00%)	(0.00%)	(100.%)
65 to 74	0	0	1	0	0	0	1
	(0.00%)	(0.00%)	(100.00%)	(0.00%)	(0.00%)	(0.00%)	(100.%)
75 to 84	1	0	1	0	0	0	2
	(50.00%)	(0.00%)	(50.00%)	(0.00%)	(0.00%)	(0.00%)	(100.%)
Total	32	1	9	10	8	0	60
	(53.33%)	(1.67%)	(15.00%)	(16.67%)	(13.33%)	(0.00%)	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

†There were 66 crashes where the pedestrian was at fault and 23 crashes where fault was not assigned.

Table 9-3
Number of Pedestrian Crashes in the North County Coastal Region
by Age of Party at Fault and First Weather Condition
July 1, 1998 to June 30, 1999

Age of Party at Fault	First Weather Condition						Total
	Not Stated	Clear	Cloudy	Raining	Fog	Other	
Not Stated	0 (0.00%)*	11 (61.11%)	6 (33.33%)	1 (5.56%)	0 (0.00%)	0 (0.00%)	18 (100.%)
1 to 4	0 (0.00%)	6 (100.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	6 (100.%)
5 to 9	0 (0.00%)	10 (90.91%)	1 (9.09%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	11 (100.%)
10 to 14	0 (0.00%)	10 (90.91%)	1 (9.09%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	11 (100.%)
15 to 19	0 (0.00%)	8 (80.00%)	2 (20.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	10 (100.%)
20 to 24	0 (0.00%)	8 (72.73%)	2 (18.18%)	1 (9.09%)	0 (0.00%)	0 (0.00%)	11 (100.%)
25 to 34	0 (0.00%)	12 (80.00%)	2 (13.33%)	0 (0.00%)	0 (0.00%)	1 (6.67%)	15 (100.%)
35 to 44	0 (0.00%)	13 (86.67%)	2 (13.33%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	15 (100.%)
45 to 54	0 (0.00%)	14 (82.35%)	2 (11.76%)	1 (5.88%)	0 (0.00%)	0 (0.00%)	17 (100.%)
55 to 64	0 (0.00%)	4 (80.00%)	1 (20.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	5 (100.%)
65 to 74	0 (0.00%)	1 (50.00%)	1 (50.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (100.%)
75 to 84	0 (0.00%)	4 (100.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	4 (100.%)
85 and older	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (100.00%)	0 (0.00%)	1 (100.%)
Fault Not Assigned	1 (4.35%)	18 (78.26%)	2 (8.70%)	0 (0.00%)	0 (0.00%)	2 (8.70%)	23 (100.%)
Total	1 (0.67%)	119 (79.87%)	22 (14.77%)	3 (2.01%)	1 (0.67%)	3 (2.01%)	149 (100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 9-4
Number of Pedestrian Crashes in the North County Coastal Region
by Age and Gender of Party at Fault and Type of Party at Fault
July 1, 1998 to June 30, 1999

Age of Party at Fault	Fault in Pedestrian Crash†					
	Pedestrian at Fault			Other Party at Fault		
	Gender of Party at Fault††			Gender of Party at Fault††		
	Male		Female	Male		Female
Not Stated	5	(7.58%)*	0 (0.00%)	7	(12.96%)	1 (1.85%)
1 to 4	3	(4.55%)	3 (4.55%)	0	(0.00%)	0 (0.00%)
5 to 9	9	(13.64%)	2 (3.03%)	0	(0.00%)	0 (0.00%)
10 to 14	7	(10.61%)	4 (6.06%)	0	(0.00%)	0 (0.00%)
15 to 19	4	(6.06%)	3 (4.55%)	1	(1.85%)	2 (3.70%)
20 to 24	3	(4.55%)	1 (1.52%)	3	(5.56%)	4 (7.41%)
25 to 34	5	(7.58%)	0 (0.00%)	7	(12.96%)	2 (3.70%)
35 to 44	5	(7.58%)	0 (0.00%)	6	(11.11%)	4 (7.41%)
45 to 54	5	(7.58%)	2 (3.03%)	7	(12.96%)	3 (5.56%)
55 to 64	1	(1.52%)	0 (0.00%)	3	(5.56%)	1 (1.85%)
65 to 74	0	(0.00%)	1 (1.52%)	0	(0.00%)	1 (1.85%)
75 to 84	1	(1.52%)	1 (1.52%)	1	(1.85%)	1 (1.85%)
85 and older	1	(1.52%)	0 (0.00%)	0	(0.00%)	0 (0.00%)
Total	49	(74.24%)	17 (25.76%)	35	(64.81%)	19 (35.19%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are age and gender percents.

†Fault was not assigned in 23 crashes.

††Gender of party at fault was not stated for 6 other parties.



REPORT OF FATAL AND INJURY TRAFFIC COLLISIONS

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NORTH COUNTY INLAND REGION

Fiscal Year 1998 - 1999

Produced by the County of San Diego, Health and Human Services Agency,
Division of Emergency Medical Services, January 2001
Funding for this program was provided by a grant from the California Office of Traffic Safety
through the Business, Transportation & Housing Agency

1: OVERVIEW

Table 1-1
Number of Victims Killed or Injured in Crashes in the North County Inland Region
by Type of Crash and Type of Victim
July 1, 1998 to June 30, 1999

Type of Crash	Type of Victim								Total
	Motor Vehicle Occupant	Motorcyclist	Pedestrian	Pedalcyclist	Other				
Motor Vehicle Occupant	2851† (100.00%)*	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)				2851 (100.%)
Motorcycle	10 (6.29%)	149† (93.71%)	0 (0.00%)	0 (0.00%)	0 (0.00%)				159 (100.%)
Pedalcycle	2 (2.17%)	1 (1.09%)	2 (2.17%)	87† (94.57%)	0 (0.00%)				92 (100.%)
Pedestrian	1 (0.92%)	1 (0.92%)	107† (98.17%)	0 (0.00%)	0 (0.00%)				109 (100.%)
Other	8 (25.00%)	0 (0.00%)	5 (15.63%)	16 (50.00%)	3 (9.38%)				32 (100.%)
Total	2872 (88.56%)	151 (4.66%)	114 (3.52%)	103 (3.18%)	3 (0.09%)				3243 (100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

†These are the victims included in the tables in sections 2, 4, 6, and 8.

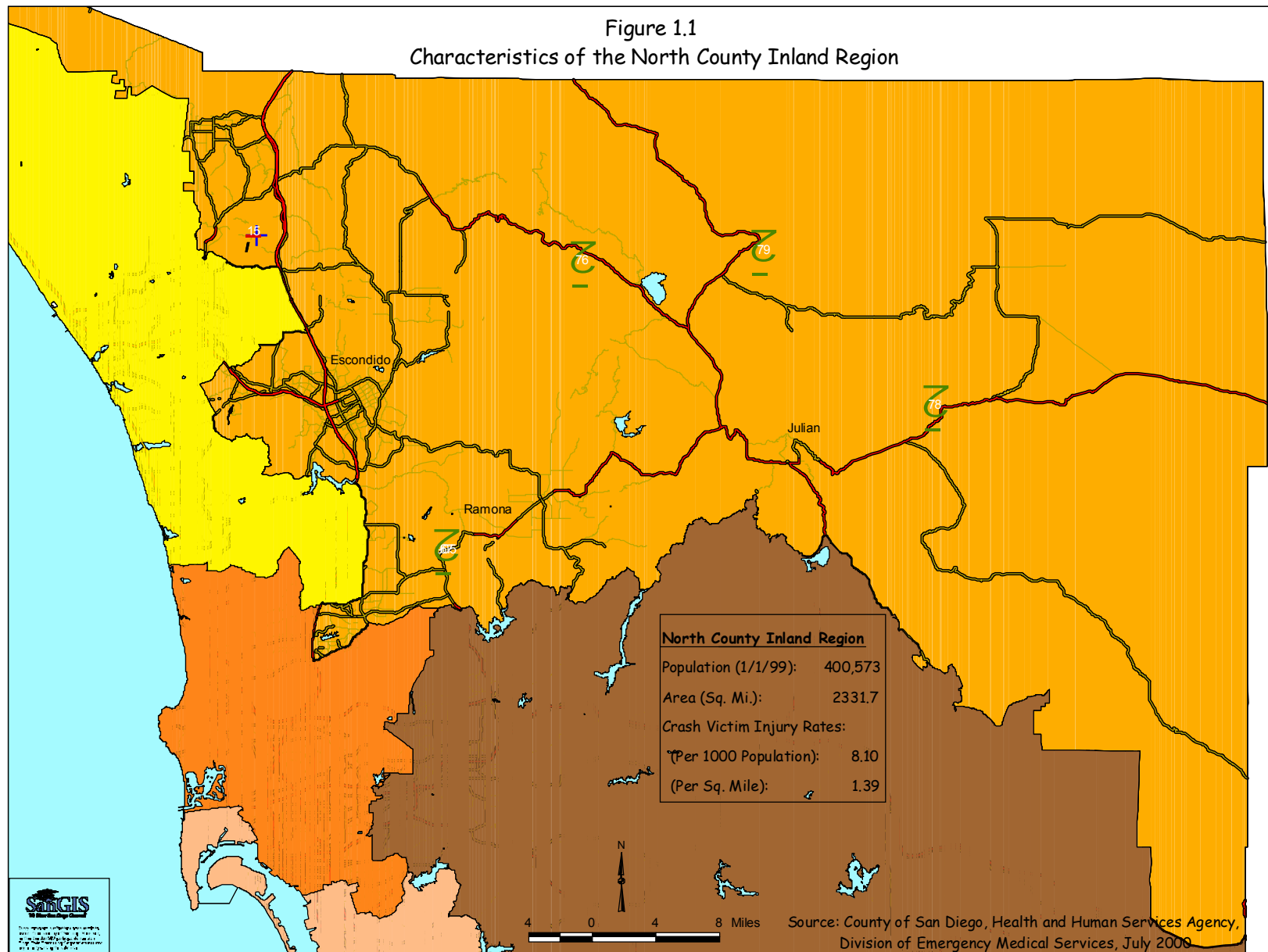
Table 1-2
Number of Victims Killed or Injured in Crashes in the North County Inland Region
by Type of Crash and Severity of Injury
July 1, 1998 to June 30, 1999

Type of Crash	Severity of Injury								Total
	Killed	Severe Injury	Other Visible Injury	Complaint of Pain					
Motor Vehicle Occupant	43 (1.51%)*	156 (5.47%)	917 (32.16%)	1735 (60.86%)					2851 (100.%)
Motorcycle	3 (1.89%)	36 (22.64%)	77 (48.43%)	43 (27.04%)					159 (100.%)
Pedalcycle	3 (3.26%)	4 (4.35%)	57 (61.96%)	28 (30.43%)					92 (100.%)
Pedestrian	11 (10.09%)	14 (12.84%)	52 (47.71%)	32 (29.36%)					109 (100.%)
Other	0 (0.00%)	7 (21.88%)	18 (56.25%)	7 (21.88%)					32 (100.%)
Total	60 (1.85%)	217 (6.69%)	1121 (34.57%)	1845 (56.89%)					3243 (100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Figure 1.1
Characteristics of the North County Inland Region



2: MOTOR VEHICLE OCCUPANT VICTIMS

Table 2-1
Leading Causes of Motor Vehicle Occupant Injuries by Age Group of Victim
North County Inland Region

Age Group of Victim	Rank of Violation Category						Total Number of Victims
	1	2	3	4	5	6	
0-4	Automobile Right-of-Way 23	Unsafe Speed 15	Traffic Signals & Signs 6	Wrong Side of Road 4	Improper Turning 3	**	57
5-9	Unsafe Speed 22	Automobile Right-of-Way 19	DUI Alcohol/Drugs 9	Traffic Signals & Signs 8	Wrong Side of Road 7	Improper Turning 6	79
10-14	Unsafe Speed 32	Automobile Right-of-Way 18	Traffic Signals & Signs 17	Improper Turning 9	DUI Alcohol/Drugs 8	Other Than Driver 3	98
15-19	Unsafe Speed 146	Automobile Right-of-Way 78	Improper Turning 71	DUI Alcohol/Drugs 58	Traffic Signals & Signs 53	Wrong Side of Road 36	491
20-24	Unsafe Speed 95	Automobile Right-of-Way 67	DUI Alcohol/Drugs 66	Improper Turning 43	Traffic Signals & Signs 36	Wrong Side of Road 30	385
25-34	Unsafe Speed 170	Automobile Right-of-Way 93	DUI Alcohol/Drugs 83	Traffic Signals & Signs 57	Improper Turning 51	Wrong Side of Road 25	533
35-44	Unsafe Speed 131	Automobile Right-of-Way 103	DUI Alcohol/Drugs 61	Traffic Signals & Signs 50	Improper Turning 35	Wrong Side of Road 20	458
45-54	Unsafe Speed 92	Automobile Right-of-Way 55	Traffic Signals & Signs 42	DUI Alcohol/Drugs 40	Wrong Side of Road 30	Improper Turning 20	314
55-64	Unsafe Speed 49	Automobile Right-of-Way 41	Improper Turning 17	DUI Alcohol/Drugs 16†	Traffic Signals & Signs 16†	Wrong Side of Road 5	162
65-74	Automobile Right-of-Way 38	Unsafe Speed 31	DUI Alcohol/Drugs 12	Traffic Signals & Signs 11	Improper Turning 8	Wrong Side of Road 7	126
75-84	Automobile Right-of-Way 38	Unsafe Speed 17	Traffic Signals & Signs 11	DUI Alcohol/Drugs 10	Improper Turning 8	Wrong Side of Road 7	101
85+	Unsafe Speed 9	Automobile Right-of-Way 7	DUI Alcohol/Drugs 2	*			23
All Ages	Unsafe Speed 811	Automobile Right-of-Way 592	DUI Alcohol/Drugs 369	Traffic Signals & Signs 309	Improper Turning 273	Wrong Side of Road 177	2851

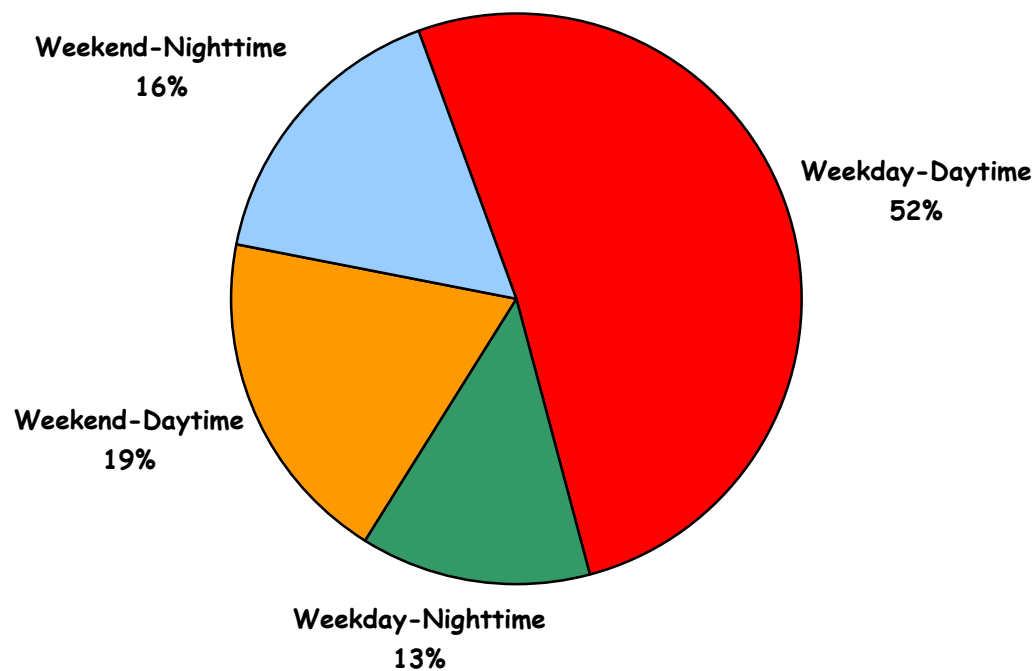
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

* Violation categories leading to a single victim were not ranked.

** Multiple violation categories with the same number of victims were not listed due to space limitations.

† Tie

Figure 2.1
Motor Vehicle Occupant Crash Victims by Time of Week
North County Inland Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

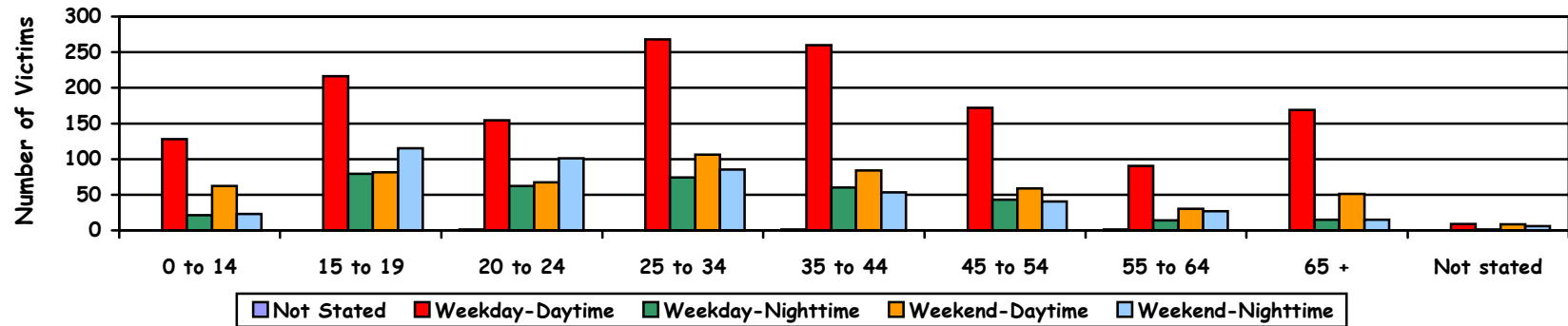
Table 2-2
Number of Motor Vehicle Occupant Victims Killed or Injured
in Motor Vehicle Occupant Crashes in the North County Inland Region
by Age of Victim and Time of Week
July 1, 1998 to June 30, 1999

Age of Victim	Time of Week									Total		
	Not Stated		Weekday-Daytime		Weekday-Nighttime		Weekend-Daytime		Weekend-Nighttime			
1 to 4	0	(0.00%)*	39	(68.42%)	3	(5.26%)	11	(19.30%)	4	(7.02%)	57	(100.%)
5 to 9	0	(0.00%)	37	(46.84%)	10	(12.66%)	20	(25.32%)	12	(15.19%)	79	(100.%)
10 to 14	0	(0.00%)	52	(53.06%)	8	(8.16%)	31	(31.63%)	7	(7.14%)	98	(100.%)
15 to 19	0	(0.00%)	216	(43.99%)	79	(16.09%)	81	(16.50%)	115	(23.42%)	491	(100.%)
20 to 24	1	(0.26%)	154	(40.00%)	62	(16.10%)	67	(17.40%)	101	(26.23%)	385	(100.%)
25 to 34	0	(0.00%)	268	(50.28%)	74	(13.88%)	106	(19.89%)	85	(15.95%)	533	(100.%)
35 to 44	1	(0.22%)	260	(56.77%)	60	(13.10%)	84	(18.34%)	53	(11.57%)	458	(100.%)
45 to 54	0	(0.00%)	172	(54.78%)	43	(13.69%)	59	(18.79%)	40	(12.74%)	314	(100.%)
55 to 64	1	(0.62%)	90	(55.56%)	14	(8.64%)	30	(18.52%)	27	(16.67%)	162	(100.%)
65 to 74	0	(0.00%)	89	(70.63%)	5	(3.97%)	24	(19.05%)	8	(6.35%)	126	(100.%)
75 to 84	0	(0.00%)	67	(66.34%)	8	(7.92%)	21	(20.79%)	5	(4.95%)	101	(100.%)
85 and older	0	(0.00%)	13	(56.52%)	2	(8.70%)	6	(26.09%)	2	(8.70%)	23	(100.%)
Not stated	0	(0.00%)	9	(37.50%)	1	(4.17%)	8	(33.33%)	6	(25.00%)	24	(100.%)
Total	3	(0.11%)	1466	(51.42%)	369	(12.94%)	548	(19.22%)	465	(16.31%)	2851	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

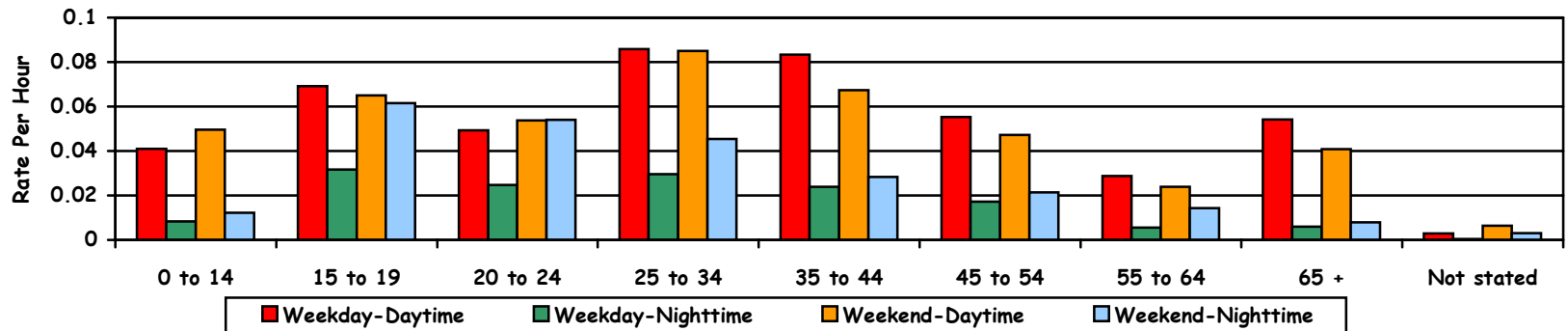
*Numbers in parentheses are row percents.

Figure 2.2
Motor Vehicle Occupant Crash Victims by Time of Week and Age of Victim
North County Inland Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Figure 2.3
Motor Vehicle Occupant Victim Rates Per Hour by Time of Week and Age of Victim
North County Inland Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 2-3
Number of Motor Vehicle Occupant Victims Killed or Injured
in Motor Vehicle Occupant Crashes in the North County Inland Region
by Type of Collision and Severity of Injury
July 1, 1998 to June 30, 1999

Type of Collision	Severity of Injury								Total	
	Killed		Severe Injury		Other Visible Injury		Complaint of Pain			
Head-on	9	(3.05%)*	39	(13.22%)	101	(34.24%)	146	(49.49%)	295	(100.%)
Sideswipe	1	(0.70%)	9	(6.29%)	42	(29.37%)	91	(63.64%)	143	(100.%)
Rear-end	6	(0.74%)	15	(1.85%)	140	(17.22%)	652	(80.20%)	813	(100.%)
Broadside	5	(0.53%)	34	(3.57%)	300	(31.51%)	613	(64.39%)	952	(100.%)
Hit Object	17	(3.39%)	48	(9.58%)	264	(52.69%)	172	(34.33%)	501	(100.%)
Overturned	5	(4.46%)	6	(5.36%)	63	(56.25%)	38	(33.93%)	112	(100.%)
Other	0	(0.00%)	5	(14.29%)	7	(20.00%)	23	(65.71%)	35	(100.%)
Total	43	(1.51%)	156	(5.47%)	917	(32.16%)	1735	(60.86%)	2851	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 2-4
Number of Motor Vehicle Occupant Victims Killed or Injured in Motor Vehicle Occupant Crashes
in the North County Inland Region
by Age of Victim and Safety Equipment Used
July 1, 1998 to June 30, 1999

Age of Victim	Safety Equipment Used										Total
	Active Restraint - Used	Active Restraint - Not Used	Passive Restraint - Used/ Deployed	Passive Restraint - Not Used/ Deployed	Child Restraint - Used	Child Restraint - Not Used	Child Restraint - Improper Use	None in Vehicle	Unknown	Other/Not Required	
1 to 4	19 (33.33%)*	2 (3.51%)	0 (0.00%)	0 (0.00%)	21 (36.84%)	3 (5.26%)	1 (1.75%)	3 (5.26%)	6 (10.53%)	2 (3.51%)	57 (100.%)
5 to 9	70 (88.61%)	3 (3.80%)	1 (1.27%)	0 (0.00%)	1 (1.27%)	0 (0.00%)	0 (0.00%)	2 (2.53%)	2 (2.53%)	0 (0.00%)	79 (100.%)
10 to 14	77 (78.57%)	11 (11.22%)	3 (3.06%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (2.04%)	3 (3.06%)	2 (2.04%)	98 (100.%)
15 to 19	379 (77.19%)	47 (9.57%)	24 (4.89%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	4 (0.81%)	33 (6.72%)	4 (0.81%)	491 (100.%)
20 to 24	282 (73.25%)	31 (8.05%)	24 (6.23%)	2 (0.52%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	6 (1.56%)	32 (8.31%)	8 (2.08%)	385 (100.%)
25 to 34	429 (80.49%)	39 (7.32%)	32 (6.00%)	1 (0.19%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	3 (0.56%)	23 (4.32%)	6 (1.13%)	533 (100.%)
35 to 44	369 (80.57%)	20 (4.37%)	33 (7.21%)	1 (0.22%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	3 (0.66%)	31 (6.77%)	1 (0.22%)	458 (100.%)
45 to 54	246 (78.34%)	18 (5.73%)	29 (9.24%)	2 (0.64%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	16 (5.10%)	3 (0.96%)	314 (100.%)
55 to 64	137 (84.57%)	4 (2.47%)	7 (4.32%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	14 (8.64%)	0 (0.00%)	162 (100.%)
65 to 74	107 (84.92%)	4 (3.17%)	11 (8.73%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	3 (2.38%)	1 (0.79%)	126 (100.%)
75 to 84	84 (83.17%)	3 (2.97%)	12 (11.88%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (1.98%)	0 (0.00%)	101 (100.%)
85 and older	23 (100.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	23 (100.%)
Not stated	13 (54.17%)	2 (8.33%)	1 (4.17%)	0 (0.00%)	2 (8.33%)	0 (0.00%)	1 (4.17%)	0 (0.00%)	5 (20.83%)	0 (0.00%)	24 (100.%)
Total	2235 (78.39%)	184 (6.45%)	177 (6.21%)	6 (0.21%)	24 (0.84%)	3 (0.11%)	2 (0.07%)	23 (0.81%)	170 (5.96%)	27 (0.95%)	2851 (100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

3: MOTOR VEHICLE OCCUPANT CRASHES

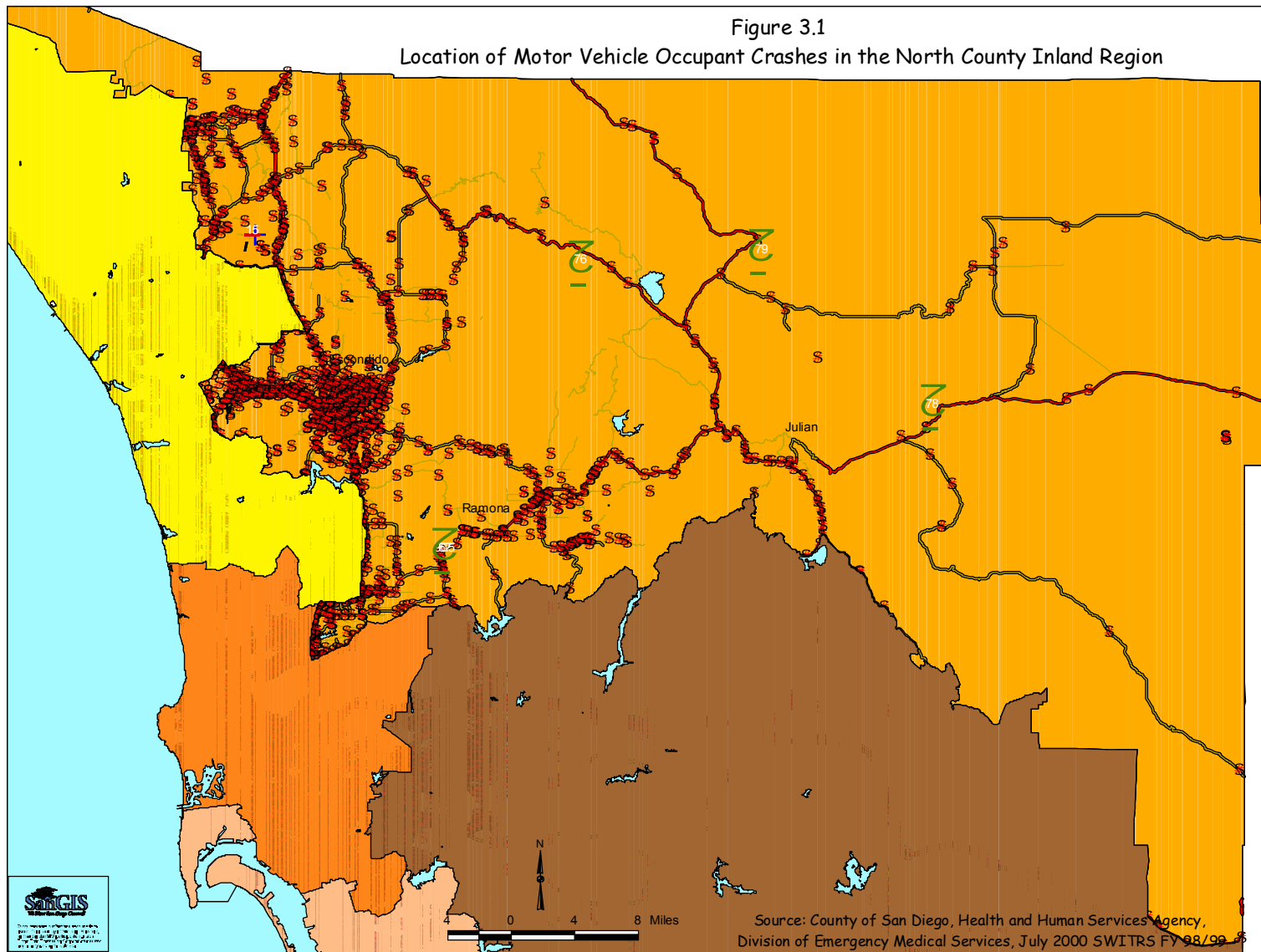


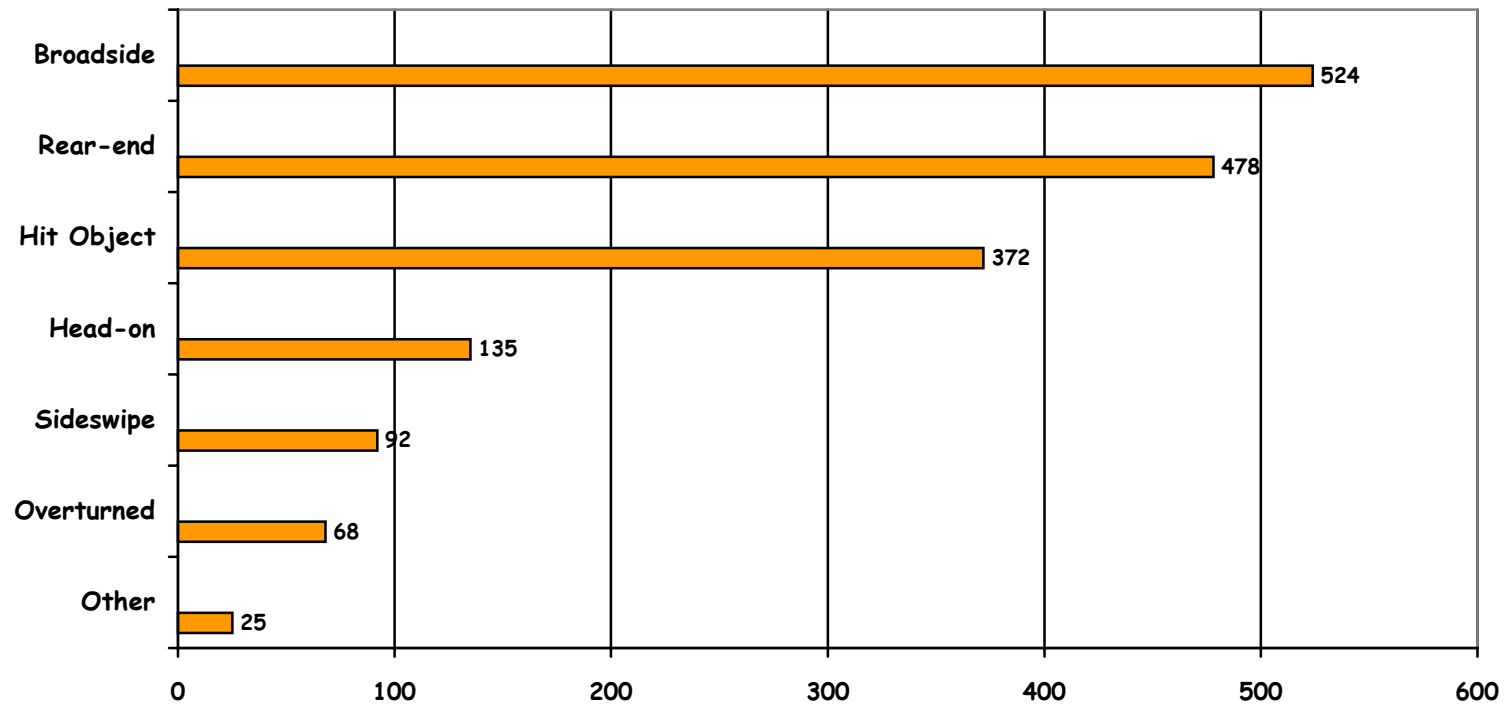
Table 3-1
Leading Violation Categories in Motor Vehicle Occupant Crashes by Age of Party at Fault
North County Inland Region

Age of Party at Fault	Rank of Violation Category						Total Number of Crashes
	1	2	3	4	5	6	
15-19	Unsafe Speed 98	Automobile Right-of-Way 62	Improper Turning 38	Traffic Signals & Signs 26	DUI Alcohol/Drugs 22	Wrong Side of Road 19	286
20-24	Unsafe Speed 72	DUI Alcohol/Drugs 46	Automobile Right-of-Way 40	Improper Turning 31	Traffic Signals & Signs 18†	Wrong Side of Road 18†	243
25-34	Unsafe Speed 106	DUI Alcohol/Drugs 59	Automobile Right-of-Way 52	Improper Turning 38	Traffic Signals & Signs 29	Wrong Side of Road 12	327
35-44	Unsafe Speed 83	Automobile Right-of-Way 50	DUI Alcohol/Drugs 43	Traffic Signals & Signs 29	Improper Turning 25	Wrong Side of Road 11	264
45-54	Unsafe Speed 42	Automobile Right-of-Way 29	DUI Alcohol/Drugs 26	Traffic Signals & Signs 18†	Wrong Side of Road 18†	Improper Turning 16	165
55-64	Automobile Right-of-Way 29	Unsafe Speed 16	Improper Turning 15	Traffic Signals & Signs 10	DUI Alcohol/Drugs 6	Wrong Side of Road 5	88
65-74	Automobile Right-of-Way 28	Unsafe Speed 18	Wrong Side of Road 8	Improper Turning 7	Traffic Signals & Signs 5	Following Too Closely 4	78
75-84	Automobile Right-of-Way 33	Unsafe Speed 12	Improper Turning 6†	Traffic Signals & Signs 6†	DUI Alcohol/Drugs 4†	Wrong Side of Road 4†	71
85+	Unsafe Speed 4†	Automobile Right-of-Way 4†	Improper Turning 2				10
All Crashes	Unsafe Speed 480	Automobile Right-of-Way 341	DUI Alcohol/Drugs 218	Improper Turning 183	Traffic Signals & Signs 156	Wrong Side of Road 102	1694

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

† Tie

Figure 3.2
Motor Vehicle Occupant Crashes by Type of Collision
North County Inland Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 3-2
Number of Motor Vehicle Occupant Crashes in the North County Inland Region
by Age of Party at Fault and Collision Type
July 1, 1998 to June 30, 1999

Age of Party at Fault	Collision Type							Total
	Head-on	Sideswipe	Rear-end	Broadside	Hit Object	Overtaken	Other	
Not Stated	9 (11.25%)*	6 (7.50%)	32 (40.00%)	17 (21.25%)	9 (11.25%)	4 (5.00%)	3 (3.75%)	80 (100.%)
15 to 19	19 (6.64%)	9 (3.15%)	66 (23.08%)	94 (32.87%)	79 (27.62%)	18 (6.29%)	1 (0.35%)	286 (100.%)
20 to 24	24 (9.88%)	10 (4.12%)	63 (25.93%)	62 (25.51%)	71 (29.22%)	10 (4.12%)	3 (1.23%)	243 (100.%)
25 to 34	16 (4.89%)	23 (7.03%)	105 (32.11%)	94 (28.75%)	74 (22.63%)	12 (3.67%)	3 (0.92%)	327 (100.%)
35 to 44	16 (6.06%)	16 (6.06%)	87 (32.95%)	84 (31.82%)	44 (16.67%)	13 (4.92%)	4 (1.52%)	264 (100.%)
45 to 54	21 (12.73%)	10 (6.06%)	43 (26.06%)	47 (28.48%)	37 (22.42%)	5 (3.03%)	2 (1.21%)	165 (100.%)
55 to 64	12 (13.64%)	5 (5.68%)	20 (22.73%)	37 (42.05%)	11 (12.50%)	2 (2.27%)	1 (1.14%)	88 (100.%)
65 to 74	9 (11.54%)	4 (5.13%)	23 (29.49%)	28 (35.90%)	13 (16.67%)	0 (0.00%)	1 (1.28%)	78 (100.%)
75 to 84	4 (5.63%)	4 (5.63%)	18 (25.35%)	33 (46.48%)	11 (15.49%)	0 (0.00%)	1 (1.41%)	71 (100.%)
85 and older	2 (20.00%)	0 (0.00%)	2 (20.00%)	2 (20.00%)	4 (40.00%)	0 (0.00%)	0 (0.00%)	10 (100.%)
Fault Not Assigned	3 (3.66%)	5 (6.10%)	19 (23.17%)	26 (31.71%)	19 (23.17%)	4 (4.88%)	6 (7.32%)	82 (100.%)
Total	135 (7.97%)	92 (5.43%)	478 (28.22%)	524 (30.93%)	372 (21.96%)	68 (4.01%)	25 (1.48%)	1694 (100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 3-3
Number of Motor Vehicle Occupant Crashes in the North County Inland Region
by Age of Party at Fault and First Weather Condition
July 1, 1998 to June 30, 1999

Age of Party at Fault	First Weather Condition							Total
	Not Stated	Clear	Cloudy	Raining	Snowing	Fog	Other	
Not Stated	1	67	9	3	0	0	0	80
	(1.25%)*	(83.75%)	(11.25%)	(3.75%)	(0.00%)	(0.00%)	(0.00%)	(100.%)
15 to 19	0	212	53	21	0	0	0	286
	(0.00%)	(74.13%)	(18.53%)	(7.34%)	(0.00%)	(0.00%)	(0.00%)	(100.%)
20 to 24	0	177	50	13	0	2	1	243
	(0.00%)	(72.84%)	(20.58%)	(5.35%)	(0.00%)	(0.82%)	(0.41%)	(100.%)
25 to 34	0	243	60	17	0	7	0	327
	(0.00%)	(74.31%)	(18.35%)	(5.20%)	(0.00%)	(2.14%)	(0.00%)	(100.%)
35 to 44	0	195	47	20	0	2	0	264
	(0.00%)	(73.86%)	(17.80%)	(7.58%)	(0.00%)	(0.76%)	(0.00%)	(100.%)
45 to 54	0	116	37	8	1	1	2	165
	(0.00%)	(70.30%)	(22.42%)	(4.85%)	(0.61%)	(0.61%)	(1.21%)	(100.%)
55 to 64	0	70	15	3	0	0	0	88
	(0.00%)	(79.55%)	(17.05%)	(3.41%)	(0.00%)	(0.00%)	(0.00%)	(100.%)
65 to 74	0	59	13	2	3	0	1	78
	(0.00%)	(75.64%)	(16.67%)	(2.56%)	(3.85%)	(0.00%)	(1.28%)	(100.%)
75 to 84	0	65	5	0	0	1	0	71
	(0.00%)	(91.55%)	(7.04%)	(0.00%)	(0.00%)	(1.41%)	(0.00%)	(100.%)
85 and older	0	10	0	0	0	0	0	10
	(0.00%)	(100.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(100.%)
Fault Not Assigned	3	57	18	4	0	0	0	82
	(3.66%)	(69.51%)	(21.95%)	(4.88%)	(0.00%)	(0.00%)	(0.00%)	(100.%)
Total	4	1271	307	91	4	13	4	1694
	(0.24%)	(75.03%)	(18.12%)	(5.37%)	(0.24%)	(0.77%)	(0.24%)	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 3-4
Number of Motor Vehicle Occupant Crashes in the North County Inland Region
by Age of Party at Fault and Time of Week
July 1, 1998 to June 30, 1999

Age of Party at Fault	Time of Week										Total	
	Not Stated		Weekday-Daytime		Weekday-Nighttime		Weekend-Daytime		Weekend-Nighttime			
Not Stated	0	(0.00%)*	38	(47.50%)	14	(17.50%)	17	(21.25%)	11	(13.75%)	80	(100.%)
15 to 19	0	(0.00%)	139	(48.60%)	42	(14.69%)	47	(16.43%)	58	(20.28%)	286	(100.%)
20 to 24	1	(0.41%)	99	(40.74%)	42	(17.28%)	40	(16.46%)	61	(25.10%)	243	(100.%)
25 to 34	0	(0.00%)	162	(49.54%)	49	(14.98%)	64	(19.57%)	52	(15.90%)	327	(100.%)
35 to 44	1	(0.38%)	138	(52.27%)	33	(12.50%)	59	(22.35%)	33	(12.50%)	264	(100.%)
45 to 54	0	(0.00%)	96	(58.18%)	21	(12.73%)	25	(15.15%)	23	(13.94%)	165	(100.%)
55 to 64	1	(1.14%)	55	(62.50%)	9	(10.23%)	13	(14.77%)	10	(11.36%)	88	(100.%)
65 to 74	0	(0.00%)	55	(70.51%)	2	(2.56%)	17	(21.79%)	4	(5.13%)	78	(100.%)
75 to 84	0	(0.00%)	50	(70.42%)	7	(9.86%)	12	(16.90%)	2	(2.82%)	71	(100.%)
85 and older	0	(0.00%)	6	(60.00%)	1	(10.00%)	2	(20.00%)	1	(10.00%)	10	(100.%)
Fault Not Assigned	0	(0.00%)	50	(60.98%)	12	(14.63%)	11	(13.41%)	9	(10.98%)	82	(100.%)
Total	3	(0.18%)	888	(52.42%)	232	(13.70%)	307	(18.12%)	264	(15.58%)	1694	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

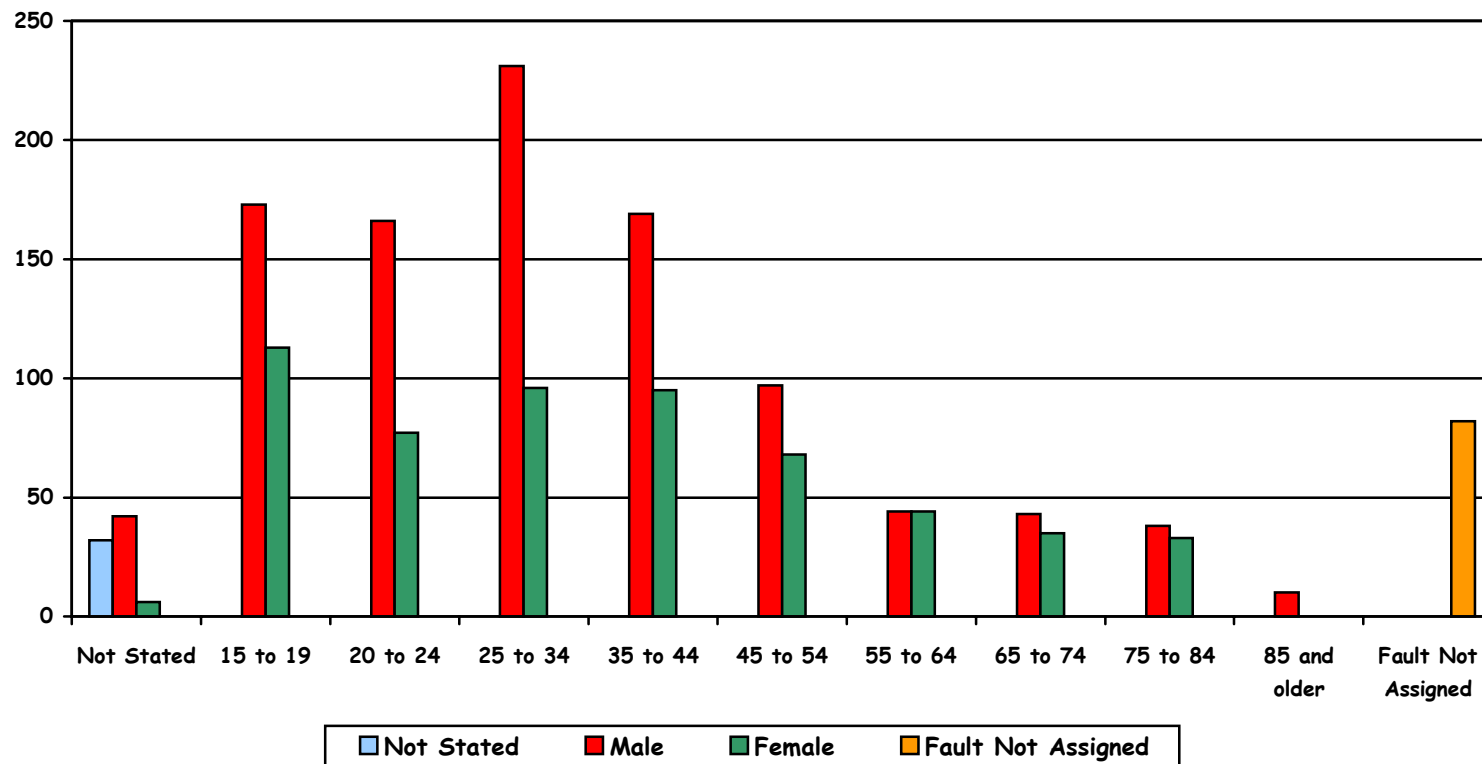
Table 3-5
Number of Motor Vehicle Occupant Crashes in the North County Inland Region
by Age of Party at Fault and First Road Condition
July 1, 1998 to June 30, 1999

Age of Party at Fault	First Road Condition								Total
	Not Stated	Holes, Deep Ruts	Loose Material on Roadway	Obstruction on Roadway	Construction or Repair Zone	Flooded	Other	No Unusual Condition	
Not Stated	1	0	0	0	2	0	0	77	80
	(1.25%)*	(0.00%)	(0.00%)	(0.00%)	(2.50%)	(0.00%)	(0.00%)	(96.25%)	(100.%)
15 to 19	1	0	3	0	6	0	3	273	286
	(0.35%)	(0.00%)	(1.05%)	(0.00%)	(2.10%)	(0.00%)	(1.05%)	(95.45%)	(100.%)
20 to 24	1	0	0	3	6	0	1	232	243
	(0.41%)	(0.00%)	(0.00%)	(1.23%)	(2.47%)	(0.00%)	(0.41%)	(95.47%)	(100.%)
25 to 34	1	0	1	3	4	1	0	317	327
	(0.31%)	(0.00%)	(0.31%)	(0.92%)	(1.22%)	(0.31%)	(0.00%)	(96.94%)	(100.%)
35 to 44	3	0	2	0	4	0	3	252	264
	(1.14%)	(0.00%)	(0.76%)	(0.00%)	(1.52%)	(0.00%)	(1.14%)	(95.45%)	(100.%)
45 to 54	1	1	0	1	1	0	1	160	165
	(0.61%)	(0.61%)	(0.00%)	(0.61%)	(0.61%)	(0.00%)	(0.61%)	(96.97%)	(100.%)
55 to 64	1	0	0	0	4	0	1	82	88
	(1.14%)	(0.00%)	(0.00%)	(0.00%)	(4.55%)	(0.00%)	(1.14%)	(93.18%)	(100.%)
65 to 74	0	0	0	1	1	0	0	76	78
	(0.00%)	(0.00%)	(0.00%)	(1.28%)	(1.28%)	(0.00%)	(0.00%)	(97.44%)	(100.%)
75 to 84	0	0	0	0	1	0	0	70	71
	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(1.41%)	(0.00%)	(0.00%)	(98.59%)	(100.%)
85 and older	0	0	0	0	0	0	0	10	10
	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(0.00%)	(100.00%)	(100.%)
Fault Not Assigned	4	0	0	1	2	0	0	75	82
	(4.88%)	(0.00%)	(0.00%)	(1.22%)	(2.44%)	(0.00%)	(0.00%)	(91.46%)	(100.%)
Total	13	1	6	9	31	1	9	1624	1694
	(0.77%)	(0.06%)	(0.35%)	(0.53%)	(1.83%)	(0.06%)	(0.53%)	(95.87%)	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Figure 3.3
Age and Gender of Party at Fault in Motor Vehicle Occupant Crashes
North County Inland Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

4: MOTORCYCLE VICTIMS

Table 4-1
Leading Causes of Motorcycle Injuries by Age Group of Victim
North County Inland Region

Age Group of Victim	Rank of Violation Category						Total Number of Victims
	1	2	3	4	5	6	
0-4							0
5-9							0
10-14	Automobile Right-of-Way 2	*					3
15-19	Unsafe Speed 6	*					7
20-24	Unsafe Speed 7	Automobile Right-of-Way 3†	Improper Turning 3†	Wrong Side of Road 2†	DUI Alcohol/Drugs 2†	*	19
25-34	Unsafe Speed 16	Automobile Right-of-Way 7	Wrong Side of Road 6†	Improper Turning 6†	**		43
35-44	Automobile Right-of-Way 9	Unsafe Speed 8†	Wrong Side of Road 8†	Other Than Driver 4†	DUI Alcohol/Drugs 4†	**	38
45-54	Wrong Side of Road 6	Unsafe Speed 5	Automobile Right-of-Way 4†	Traffic Signals & Signs 4†	Other Than Driver 3	Improper Turning 2	26
55-64	Wrong Side of Road 3	Other Hazardous Viol. 2	*				10
65-74	*						1
75-84	*						2
85+							0
All Ages	Unsafe Speed 45	Automobile Right-of-Way 27	Wrong Side of Road 25	Improper Turning 13	Other Than Driver 9	DUI Alcohol/Drugs 8	149

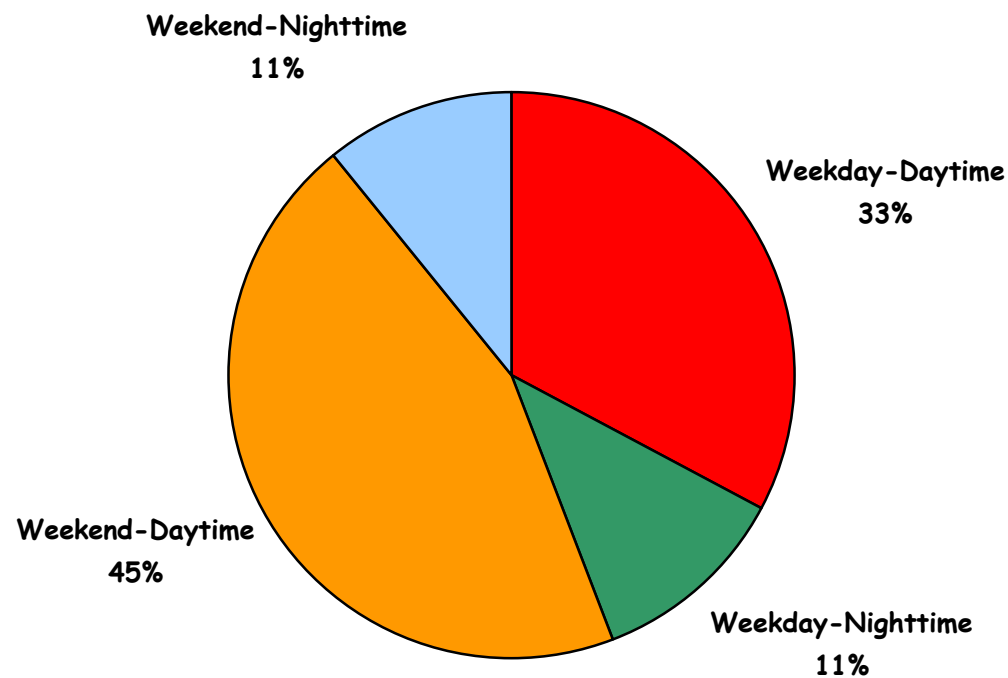
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

* Violation categories leading to a single victim were not ranked.

** Multiple violation categories with the same number of victims were not listed due to space limitations.

† Tie

Figure 4.1
Motorcycle Crash Victims by Time of Week
North County Inland Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 4-2
Number of Motorcycle Victims Killed or Injured in Motorcycle Crashes
in the North County Inland Region
by Age of Victim and Time of Week
July 1, 1998 to June 30, 1999

Age of Victim	Time of Week								Total	
	Weekday-Daytime		Weekday-Nighttime		Weekend-Daytime		Weekend-Nighttime			
10 to 14	3	(100.00%)*	0	(0.00%)	0	(0.00%)	0	(0.00%)	3	(100.%)
15 to 19	5	(71.43%)	1	(14.29%)	0	(0.00%)	1	(14.29%)	7	(100.%)
20 to 24	5	(26.32%)	4	(21.05%)	10	(52.63%)	0	(0.00%)	19	(100.%)
25 to 34	19	(44.19%)	2	(4.65%)	19	(44.19%)	3	(6.98%)	43	(100.%)
35 to 44	10	(26.32%)	6	(15.79%)	16	(42.11%)	6	(15.79%)	38	(100.%)
45 to 54	5	(19.23%)	4	(15.38%)	13	(50.00%)	4	(15.38%)	26	(100.%)
55 to 64	2	(20.00%)	0	(0.00%)	6	(60.00%)	2	(20.00%)	10	(100.%)
65 to 74	0	(0.00%)	0	(0.00%)	1	(100.00%)	0	(0.00%)	1	(100.%)
75 to 84	0	(0.00%)	0	(0.00%)	2	(100.00%)	0	(0.00%)	2	(100.%)
Total	49	(32.89%)	17	(11.41%)	67	(44.97%)	16	(10.74%)	149	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

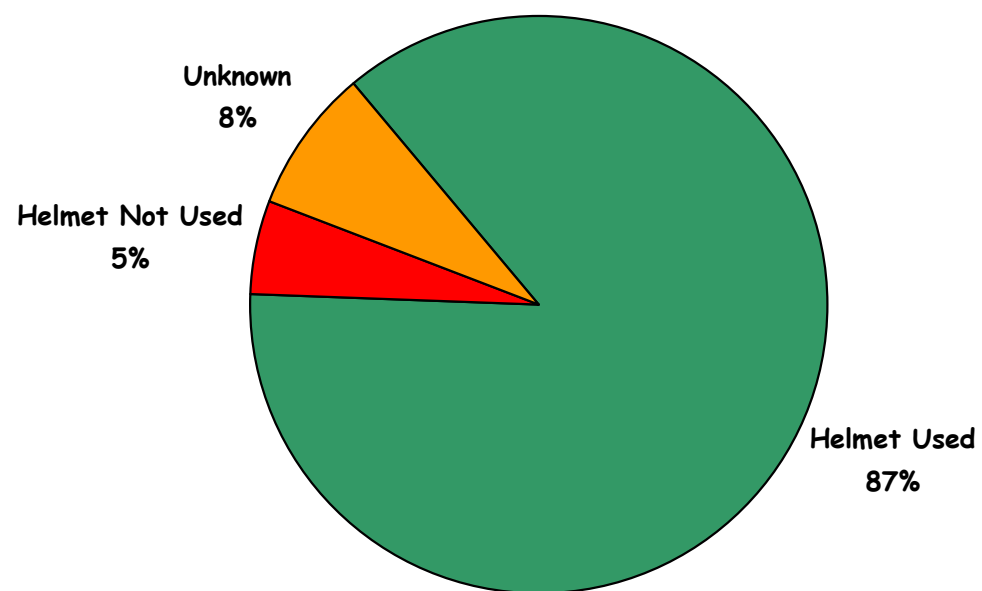
Table 4-3
Number of Motorcycle Victims Killed or Injured in Motorcycle Crashes
in the North County Inland Region
by Type of Collision and Severity of Injury
July 1, 1998 to June 30, 1999

Type of Collision	Severity of Injury								Total	
	Killed		Severe Injury		Other Visible Injury		Complaint of Pain			
Head-on	1	(7.14%)*	4	(28.57%)	5	(35.71%)	4	(28.57%)	14	(100.%)
Sideswipe	0	(0.00%)	2	(40.00%)	3	(60.00%)	0	(0.00%)	5	(100.%)
Rear-end	0	(0.00%)	2	(18.18%)	3	(27.27%)	6	(54.55%)	11	(100.%)
Broadside	0	(0.00%)	9	(31.03%)	11	(37.93%)	9	(31.03%)	29	(100.%)
Hit Object	1	(2.94%)	11	(32.35%)	15	(44.12%)	7	(20.59%)	34	(100.%)
Overtuned	1	(2.08%)	7	(14.58%)	29	(60.42%)	11	(22.92%)	48	(100.%)
Other	0	(0.00%)	1	(12.50%)	7	(87.50%)	0	(0.00%)	8	(100.%)
Total	3	(2.01%)	36	(24.16%)	73	(48.99%)	37	(24.83%)	149	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Figure 4.2
Helmet Use Among Motorcycle Crash Victims
North County Inland Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 4-4
Number of Motorcycle Victims Killed or Injured in Motorcycle Crashes
in the North County Inland Region
by Age of Victim and Helmet Use
July 1, 1998 to June 30, 1999

Age of Victim	Helmet Use						Total	
	Helmet Used		Helmet Not Used		Unknown			
10 to 14	3	(100.00%)*	0	(0.00%)	0	(0.00%)	3	(100.%)
15 to 19	5	(71.43%)	0	(0.00%)	2	(28.57%)	7	(100.%)
20 to 24	16	(84.21%)	0	(0.00%)	3	(15.79%)	19	(100.%)
25 to 34	37	(86.05%)	3	(6.98%)	3	(6.98%)	43	(100.%)
35 to 44	32	(84.21%)	4	(10.53%)	2	(5.26%)	38	(100.%)
45 to 54	23	(88.46%)	1	(3.85%)	2	(7.69%)	26	(100.%)
55 to 64	10	(100.00%)	0	(0.00%)	0	(0.00%)	10	(100.%)
65 to 74	1	(100.00%)	0	(0.00%)	0	(0.00%)	1	(100.%)
75 to 84	2	(100.00%)	0	(0.00%)	0	(0.00%)	2	(100.%)
Total	129	(86.58%)	8	(5.37%)	12	(8.05%)	149	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

5: MOTORCYCLE CRASHES

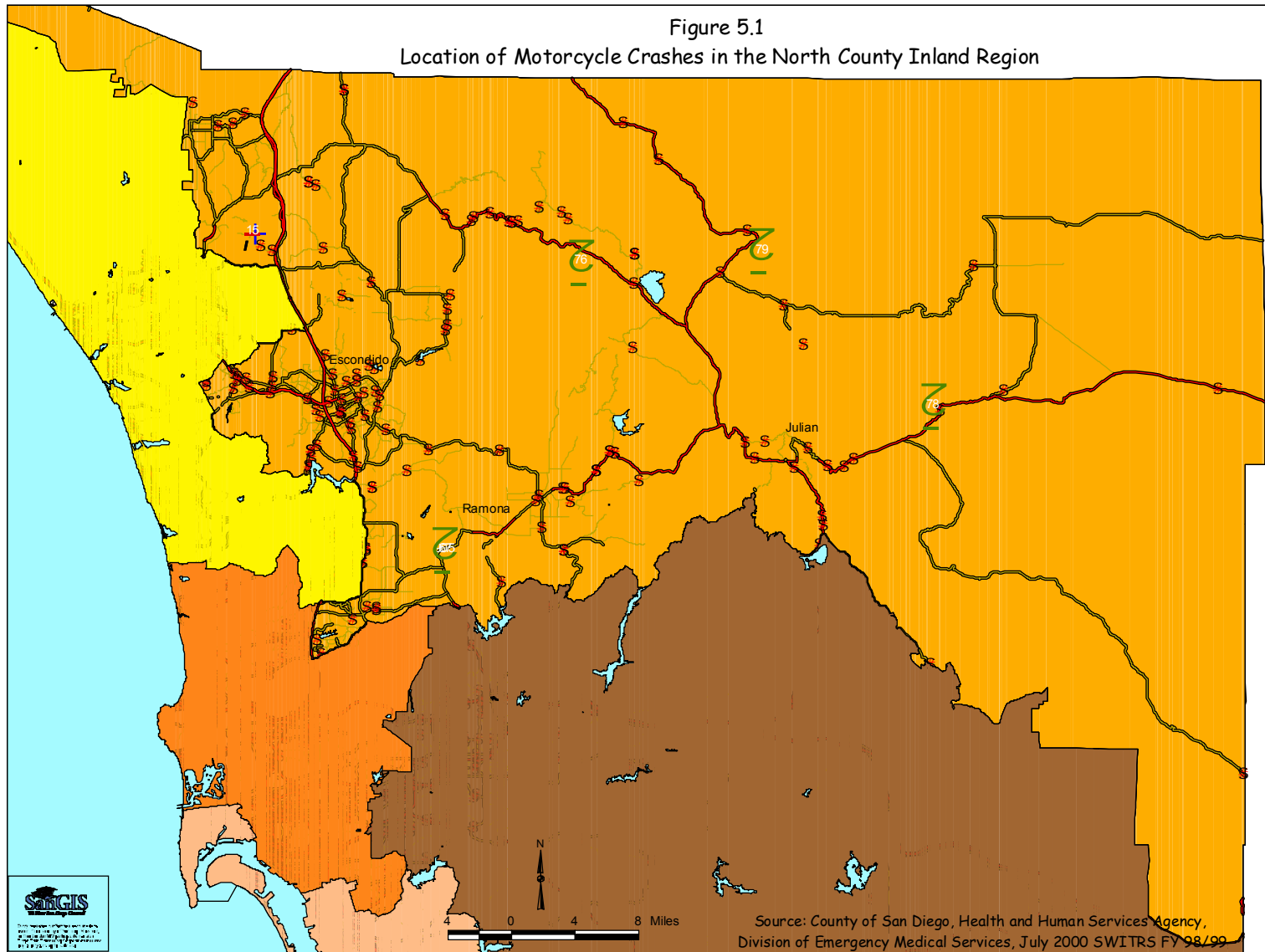


Table 5-1
Leading Violation Categories in Motorcycle Crashes by Type of Party at Fault
North County Inland Region

Type of Party at Fault	Rank of Violation Category						Total Number of Crashes
	1	2	3	4	5	6	
Motorcycle at Fault	Unsafe Speed 36	Wrong Side of Road 22	Improper Turning 8	Automobile Right-of-Way 7	DUI Alcohol/Drugs 6†	Other Hazardous Viol. 6†	91
Other Party at Fault	Automobile Right-of-Way 16	Unsafe Speed 3†	Traffic Signals & Signs 3†	Improper Turning 2†	DUI Alcohol/Drugs 2†	*	29
Fault Not Assigned	Other Than Driver 8	*					13
All Crashes	Unsafe Speed 40	Automobile Right-of-Way 23	Wrong Side of Road 22	Improper Turning 11	DUI Alcohol/Drugs 8†	Other Than Driver 8†	133

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

* Violation categories leading to a single crash were not ranked.

† Tie

Table 5-2
Number of Motorcycle Crashes in the North County Inland Region
by Collision Type and Type of Party at Fault
July 1, 1998 to June 30, 1999

Collision Type	Fault in Motorcycle Crash						Total	
	Motorcycle at Fault		Other Party at Fault		Fault Not Assigned			
Head-on	9	(81.82%)*	1	(9.09%)	1	(9.09%)	11	(100.%)
Sideswipe	3	(60.00%)	1	(20.00%)	1	(20.00%)	5	(100.%)
Rear-end	5	(45.45%)	4	(36.36%)	2	(18.18%)	11	(100.%)
Broadside	9	(36.00%)	16	(64.00%)	0	(0.00%)	25	(100.%)
Hit Object	29	(90.63%)	1	(3.13%)	2	(6.25%)	32	(100.%)
Overturned	34	(80.95%)	5	(11.90%)	3	(7.14%)	42	(100.%)
Other	2	(28.57%)	1	(14.29%)	4	(57.14%)	7	(100.%)
Total	91	(68.42%)	29	(21.80%)	13	(9.77%)	133	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 5-3
Number of Motorcycle Crashes in the North County Inland Region
by First Weather Condition and Type of Party at Fault
July 1, 1998 to June 30, 1999

First Weather Condition	Fault in Motorcycle Crash						Total	
	Motorcycle at Fault		Other Party at Fault		Fault Not Assigned			
Clear	84	(68.85%)*	25	(20.49%)	13	(10.66%)	122	(100.%)
Cloudy	7	(63.64%)	4	(36.36%)	0	(0.00%)	11	(100.%)
Total	91	(68.42%)	29	(21.80%)	13	(9.77%)	133	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 5-4
Number of Motorcycle Crashes in the North County Inland Region
by Time of Week and Type of Party at Fault
July 1, 1998 to June 30, 1999

Time of Week	Fault in Motorcycle Crash						Total	
	Motorcycle at Fault		Other Party at Fault		Fault Not Assigned			
Weekday-Daytime	30	(68.18%)*	9	(20.45%)	5	(11.36%)	44	(100.%)
Weekday-Nighttime	9	(60.00%)	4	(26.67%)	2	(13.33%)	15	(100.%)
Weekend-Daytime	41	(70.69%)	11	(18.97%)	6	(10.34%)	58	(100.%)
Weekend-Nighttime	11	(68.75%)	5	(31.25%)	0	(0.00%)	16	(100.%)
Total	91	(68.42%)	29	(21.80%)	13	(9.77%)	133	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 5-5
Number of Motorcycle Crashes in the North County Inland Region
by First Road Condition and Type of Party at Fault
July 1, 1998 to June 30, 1999

First Road Condition	Fault in Motorcycle Crash						Total	
	Motorcycle at Fault		Other Party at Fault		Fault Not Assigned			
Loose Material on Roadway	2	(100.00%)*	0	(0.00%)	0	(0.00%)	2	(100.%)
Obstruction on Roadway	0	(0.00%)	0	(0.00%)	1	(100.00%)	1	(100.%)
Other	0	(0.00%)	0	(0.00%)	1	(100.00%)	1	(100.%)
No Unusual Condition	89	(68.99%)	29	(22.48%)	11	(8.53%)	129	(100.%)
Total	91	(68.42%)	29	(21.80%)	13	(9.77%)	133	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 5-6
Number of Motorcycle Crashes in the North County Inland Region
by Age and Gender of Party at Fault and Type of Party at Fault
July 1, 1998 to June 30, 1999

Age of Party at Fault	Fault in Motorcycle Crash†							
	Motorcycle at Fault				Other Party at Fault			
	Gender of Party at Fault††				Gender of Party at Fault††			
	Male		Female		Male		Female	
Not Stated	0	(0.00%)*	0	(0.00%)	0	(0.00%)	2	(7.14%)
10 to 14	1	(1.10%)	0	(0.00%)	0	(0.00%)	0	(0.00%)
15 to 19	5	(5.49%)	0	(0.00%)	1	(3.57%)	2	(7.14%)
20 to 24	15	(16.48%)	0	(0.00%)	4	(14.29%)	2	(7.14%)
25 to 34	26	(28.57%)	1	(1.10%)	0	(0.00%)	1	(3.57%)
35 to 44	20	(21.98%)	2	(2.20%)	6	(21.43%)	2	(7.14%)
45 to 54	13	(14.29%)	0	(0.00%)	2	(7.14%)	0	(0.00%)
55 to 64	6	(6.59%)	0	(0.00%)	3	(10.71%)	0	(0.00%)
65 to 74	1	(1.10%)	0	(0.00%)	0	(0.00%)	1	(3.57%)
75 to 84	1	(1.10%)	0	(0.00%)	0	(0.00%)	2	(7.14%)
Total	88	(96.70%)	3	(3.30%)	16	(57.14%)	12	(42.86%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are age and gender percents.

†Fault was not assigned in 13 crashes.

††Gender of party at fault was not stated for 1 other party.

6: PEDALCYCLE VICTIMS

Table 6-1
Leading Causes of Pedalcycle Injuries by Age Group of Victim
North County Inland Region

Age Group of Victim	Rank of Violation Category						Total Number of Victims
	1	2	3	4	5	6	
0-4							0
5-9	Automobile Right-of-Way 2	*					7
10-14	Automobile Right-of-Way 11	Wrong Side of Road 6	Traffic Signals & Signs 3	Improper Turning 2†	Other Hazardous Viol. 2†	*	26
15-19	Wrong Side of Road 2	*					7
20-24	Automobile Right-of-Way 3	Other Hazardous Viol. 2†	Other Improper Driving 2†	*			9
25-34	Automobile Right-of-Way 4	Improper Turning 3	DUI Alcohol/Drugs 2	*			14
35-44	Automobile Right-of-Way 2†	Other Hazardous Viol. 2†	DUI Alcohol/Drugs 2†	*			8
45-54	Automobile Right-of-Way 3†	Improper Turning 3†	Traffic Signals & Signs 2	*			9
55-64	*						3
65-74	*						2
75-84							0
85+							0
All Ages	Automobile Right-of-Way 26	Wrong Side of Road 13	Improper Turning 11	Traffic Signals & Signs 7†	Other Hazardous Viol. 7†	DUI Alcohol/Drugs 5	87

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

* Violation categories leading to a single victim were not ranked.

† Tie

Table 6-2
Number of Pedalcycle Victims Killed or Injured in Pedalcycle Crashes
in the North County Inland Region
by Age of Victim and Time of Week
July 1, 1998 to June 30, 1999

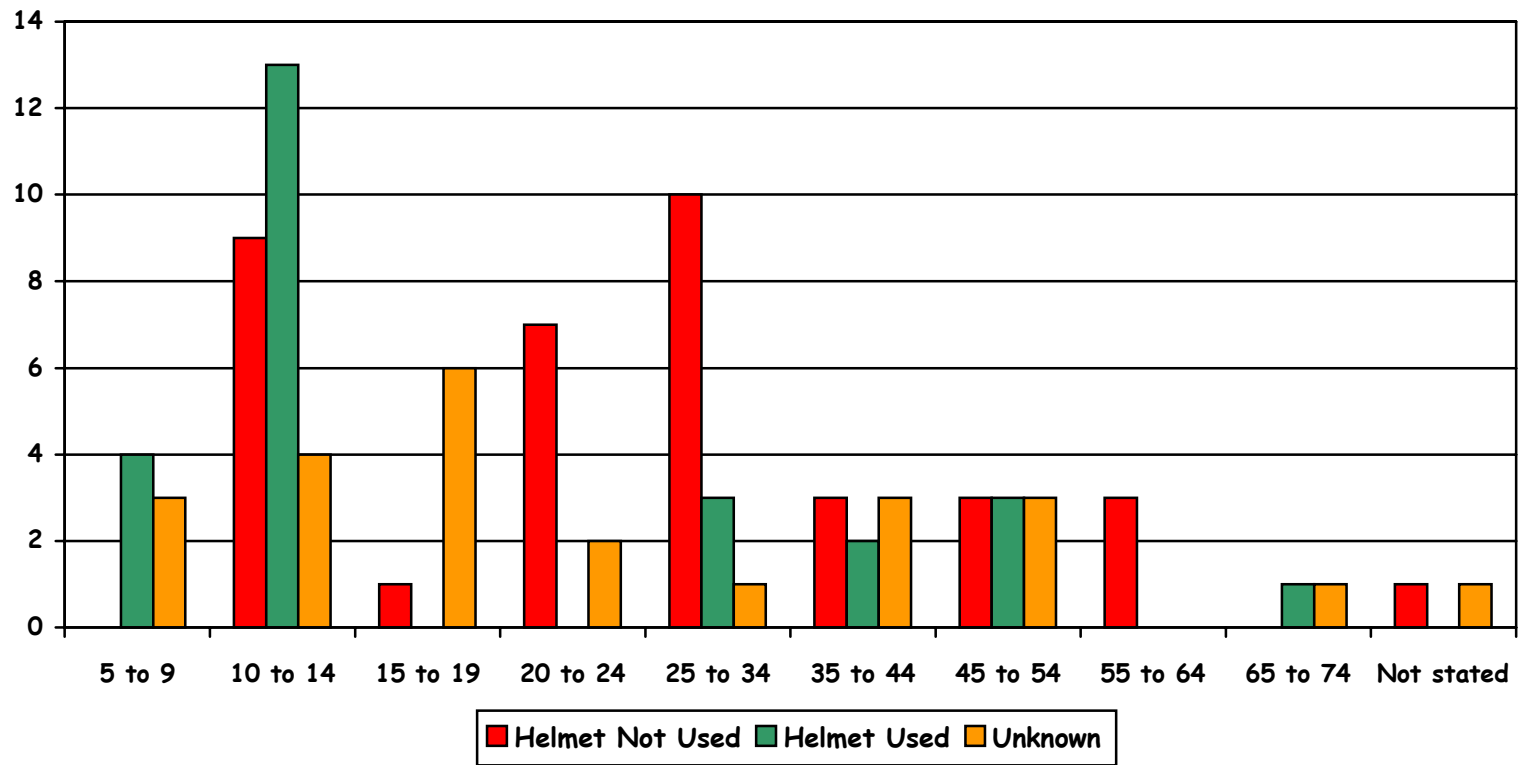
Age of Victim	Time of Week								Total	
	Weekday-Daytime	Weekday-Nighttime	Weekend-Daytime	Weekend-Nighttime						
5 to 9	5 (71.43%)*	1 (14.29%)	1 (14.29%)	0 (0.00%)					7	(100.%)
10 to 14	17 (65.38%)	2 (7.69%)	6 (23.08%)	1 (3.85%)					26	(100.%)
15 to 19	6 (85.71%)	1 (14.29%)	0 (0.00%)	0 (0.00%)					7	(100.%)
20 to 24	5 (55.56%)	2 (22.22%)	2 (22.22%)	0 (0.00%)					9	(100.%)
25 to 34	7 (50.00%)	3 (21.43%)	2 (14.29%)	2 (14.29%)					14	(100.%)
35 to 44	4 (50.00%)	1 (12.50%)	2 (25.00%)	1 (12.50%)					8	(100.%)
45 to 54	8 (88.89%)	0 (0.00%)	1 (11.11%)	0 (0.00%)					9	(100.%)
55 to 64	2 (66.67%)	0 (0.00%)	1 (33.33%)	0 (0.00%)					3	(100.%)
65 to 74	1 (50.00%)	0 (0.00%)	1 (50.00%)	0 (0.00%)					2	(100.%)
Not stated	1 (50.00%)	0 (0.00%)	1 (50.00%)	0 (0.00%)					2	(100.%)
Total	56 (64.37%)	10 (11.49%)	17 (19.54%)	4 (4.60%)					87	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SW IIRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 6-3 Number of Pedalcycle Victims Killed or Injured in Pedalcycle Crashes in the North County Inland Region by Age of Victim and First Weather Condition July 1, 1998 to June 30, 1999				
Age of Victim	First Weather Condition			Total
	Clear	Cloudy	Raining	
5 to 9	7	0	0	7
	(100.00%)*	(0.00%)	(0.00%)	(100.%)
10 to 14	22	4	0	26
	(84.62%)	(15.38%)	(0.00%)	(100.%)
15 to 19	5	2	0	7
	(71.43%)	(28.57%)	(0.00%)	(100.%)
20 to 24	9	0	0	9
	(100.00%)	(0.00%)	(0.00%)	(100.%)
25 to 34	12	1	1	14
	(85.71%)	(7.14%)	(7.14%)	(100.%)
35 to 44	7	0	1	8
	(87.50%)	(0.00%)	(12.50%)	(100.%)
45 to 54	9	0	0	9
	(100.00%)	(0.00%)	(0.00%)	(100.%)
55 to 64	3	0	0	3
	(100.00%)	(0.00%)	(0.00%)	(100.%)
65 to 74	2	0	0	2
	(100.00%)	(0.00%)	(0.00%)	(100.%)
Not stated	2	0	0	2
	(100.00%)	(0.00%)	(0.00%)	(100.%)
Total	78	7	2	87
	(89.66%)	(8.05%)	(2.30%)	(100.%)
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99. *Numbers in parentheses are row percents.				

Figure 6.1
Helmet Use by Age of Pedalcyclist Crash Victims
North County Inland Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 6-4
Number of Pedalcycle Victims Killed or Injured in Pedalcycle Crashes
in the North County Inland Region
by Helmet Use and Severity of Injury
July 1, 1998 to June 30, 1999

Helmet Use	Severity of Injury								Total	
	Killed		Severe Injury		Other Visible Injury		Complaint of Pain			
Helmet Used	2	(7.69%)*	2	(7.69%)	15	(57.69%)	7	(26.92%)	26	(100.%)
Helmet Not Used	1	(2.70%)	2	(5.41%)	22	(59.46%)	12	(32.43%)	37	(100.%)
Unknown	0	(0.00%)	0	(0.00%)	15	(62.50%)	9	(37.50%)	24	(100.%)
Total	3	(3.45%)	4	(4.6%)	52	(59.77%)	28	(32.18%)	87	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

7: PEDALCYCLE CRASHES

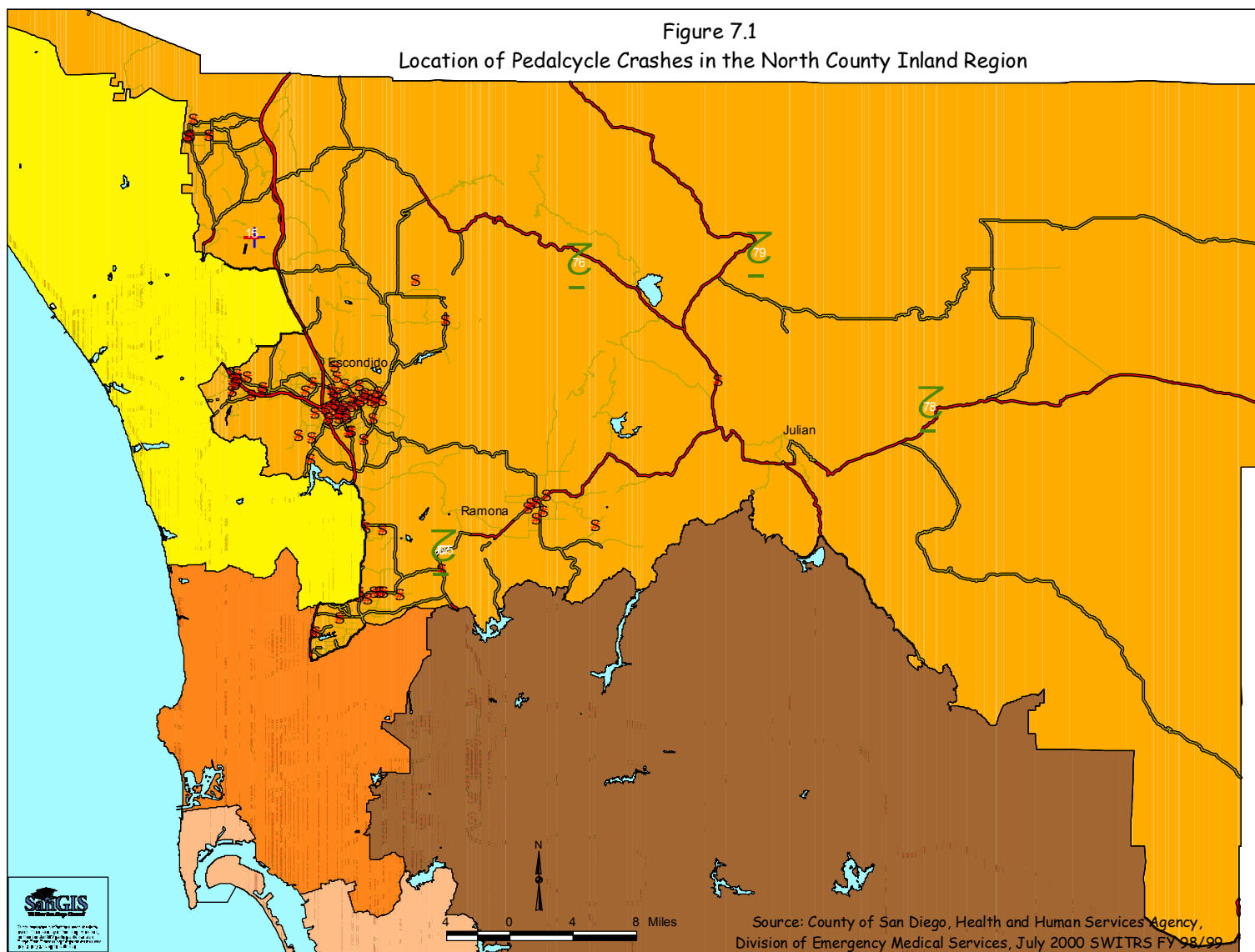


Table 7-1
Leading Violation Categories in Pedalcycle Crashes by Type of Party at Fault
North County Inland Region

Type of Party at Fault	Rank of Violation Category						Total Number of Crashes
	1	2	3	4	5	6	
Pedalcycle at Fault	Wrong Side of Road 13	Automobile Right-of-Way 11	Improper Turning 7†	Other Hazardous Viol. 7†	Traffic Signals & Signs 6	**	53
Other Party at Fault	Automobile Right-of-Way 16	Improper Turning 3	DUI Alcohol/Drugs 2	*			27
Fault Not Assigned	§						8
All Crashes	Automobile Right-of-Way 27	Wrong Side of Road 13	Improper Turning 10	Other Hazardous Viol. 7†	Traffic Signals & Signs 7†	DUI Alcohol/Drugs 5	88

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

* Violation categories leading to a single crash were not ranked.

** Multiple violation categories with the same number of victims were not listed due to space limitations.

† Tie

§ Violation category unknown for other crashes.

Table 7-2
Number of Pedalcycle Crashes in the North County Inland Region
by First Weather Condition and Type of Party at Fault
July 1, 1998 to June 30, 1999

First Weather Condition	Fault in Pedalcycle Crash						Total	
	Pedalcycle at Fault		Other Party at Fault		Fault Not Assigned			
Clear	47	(59.49%)*	25	(31.65%)	7	(8.86%)	79	(100.%)
Cloudy	6	(85.71%)	0	(0.00%)	1	(14.29%)	7	(100.%)
Raining	0	(0.00%)	2	(100.00%)	0	(0.00%)	2	(100.%)
Total	53	(60.23%)	27	(30.68%)	8	(9.09%)	88	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 7-3
Number of Pedalcycle Crashes in the North County Inland Region
by Time of Week and Type of Party at Fault
July 1, 1998 to June 30, 1999

Time of Week	Fault in Pedalcycle Crash						Total	
	Pedalcycle at Fault		Other Party at Fault		Fault Not Assigned			
Weekday-Daytime	33	(57.89%)*	20	(35.09%)	4	(7.02%)	57	(100.%)
Weekday-Nighttime	6	(60.00%)	2	(20.00%)	2	(20.00%)	10	(100.%)
Weekend-Daytime	11	(64.71%)	5	(29.41%)	1	(5.88%)	17	(100.%)
Weekend-Nighttime	3	(75.00%)	0	(0.00%)	1	(25.00%)	4	(100.%)
Total	53	(60.23%)	27	(30.68%)	8	(9.09%)	88	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 7-4
Number of Pedalcycle Crashes in the North County Inland Region
by First Road Condition and Type of Party at Fault
July 1, 1998 to June 30, 1999

First Road Condition	Fault in Pedalcycle Crash						Total	
	Pedalcycle at Fault		Other Party at Fault		Fault Not Assigned			
No Unusual Condition	53	(60.23%)*	27	(30.68%)	8	(9.09%)	88	(100.%)
Total	53	(60.23%)	27	(30.68%)	8	(9.09%)	88	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 7-5
Number of Pedalcycle Crashes in the North County Inland Region
by Age and Gender of Party at Fault and Type of Party at Fault
July 1, 1998 to June 30, 1999

Age of Party at Fault	Fault in Pedalcycle Crash†							
	Pedalcycle at Fault				Other Party at Fault			
	Gender of Party at Fault††				Gender of Party at Fault††			
	Male		Female		Male		Female	
Not Stated	3	(5.66%)*	0	(0.00%)	1	(3.85%)	0	(0.00%)
5 to 9	3	(5.66%)	3	(5.66%)	0	(0.00%)	0	(0.00%)
10 to 14	16	(30.19%)	2	(3.77%)	1	(3.85%)	0	(0.00%)
15 to 19	3	(5.66%)	0	(0.00%)	2	(7.69%)	4	(15.38%)
20 to 24	6	(11.32%)	1	(1.89%)	2	(7.69%)	1	(3.85%)
25 to 34	8	(15.09%)	1	(1.89%)	3	(11.54%)	0	(0.00%)
35 to 44	2	(3.77%)	0	(0.00%)	3	(11.54%)	3	(11.54%)
45 to 54	3	(5.66%)	0	(0.00%)	1	(3.85%)	0	(0.00%)
55 to 64	1	(1.89%)	0	(0.00%)	1	(3.85%)	0	(0.00%)
65 to 74	1	(1.89%)	0	(0.00%)	0	(0.00%)	2	(7.69%)
75 to 84	0	(0.00%)	0	(0.00%)	1	(3.85%)	1	(3.85%)
Total	46	(86.79%)	7	(13.21%)	15	(57.69%)	11	(42.31%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are age and gender percents.

†Fault was not assigned in 8 crashes.

††Gender of party at fault was not stated for 1 other party.

8: PEDESTRIAN VICTIMS

Table 8-1
Leading Causes of Pedestrian Injuries by Age Group of Victim
North County Inland Region

Age Group of Victim	Rank of Violation Category						Total Number of Victims
	1	2	3	4	5	6	
0-4	Pedestrian Violation 2	*					3
5-9	Pedestrian Violation 10	*					13
10-14	Pedestrian Violation 12	Pedestrian Right-of-Way 2†	Improper Turning 2†	*			23
15-19	Pedestrian Violation 6	*					11
20-24	Pedestrian Violation 3	*					5
25-34	Pedestrian Violation 4	Pedestrian Right-of-Way 2†	Unsafe Start/Backup 2†	*			10
35-44	Pedestrian Violation 4†	Pedestrian Right-of-Way 4†	§				9
45-54	Pedestrian Violation 5	Peds UI Alcohol/Drugs 3	*				11
55-64	Pedestrian Violation 3	Pedestrian Right-of-Way 2	*				6
65-74	Pedestrian Violation 3	*					4
75-84	Pedestrian Violation 3	Improper Turning 2†	Unsafe Speed 2†	*			9
85+	*						1
All Ages	Pedestrian Violation 57	Pedestrian Right-of-Way 13	Unsafe Start/Backup 6	Peds UI Alcohol/Drugs 5	Improper Turning 4	**	107

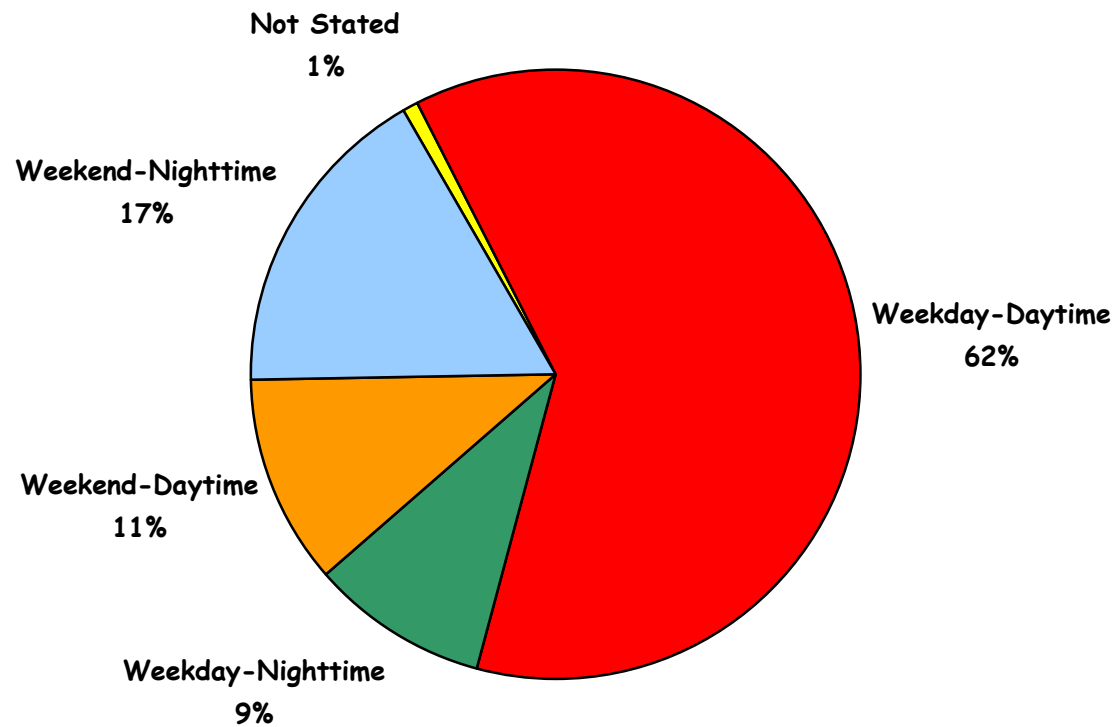
Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

* Violation categories leading to a single victim were not ranked.

† Tie

§ Violation category unknown for other victims.

Figure 8.1
Pedestrian Crash Victims by Time of Week
North County Inland Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

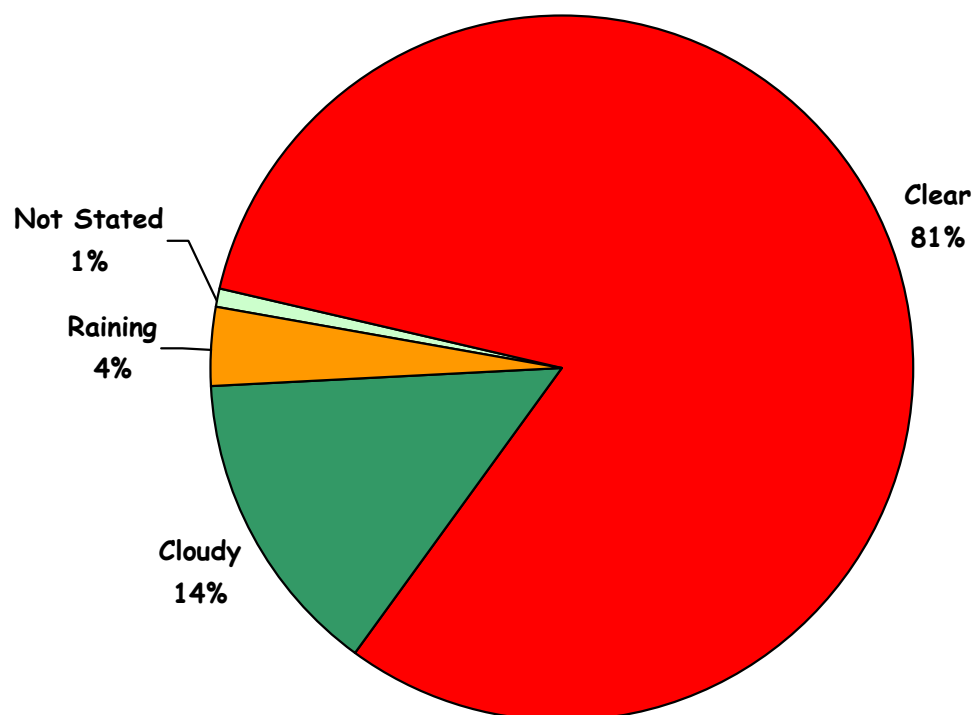
Table 8-2
Number of Pedestrian Victims Killed or Injured in Pedestrian Crashes
in the North County Inland Region
by Age of Victim and Time of Week
July 1, 1998 to June 30, 1999

Age of Victim	Time of Week								Total			
	Not Stated		Weekday-Daytime		Weekday-Nighttime		Weekend-Daytime				Weekend-Nighttime	
1 to 4	0	(0.00%)*	2	(66.67%)	0	(0.00%)	0	(0.00%)	1	(33.33%)	3	(100.%)
5 to 9	0	(0.00%)	8	(61.54%)	2	(15.38%)	3	(23.08%)	0	(0.00%)	13	(100.%)
10 to 14	0	(0.00%)	18	(78.26%)	3	(13.04%)	1	(4.35%)	1	(4.35%)	23	(100.%)
15 to 19	0	(0.00%)	9	(81.82%)	0	(0.00%)	0	(0.00%)	2	(18.18%)	11	(100.%)
20 to 24	0	(0.00%)	1	(20.00%)	1	(20.00%)	2	(40.00%)	1	(20.00%)	5	(100.%)
25 to 34	0	(0.00%)	8	(80.00%)	0	(0.00%)	0	(0.00%)	2	(20.00%)	10	(100.%)
35 to 44	1	(11.11%)	4	(44.44%)	0	(0.00%)	2	(22.22%)	2	(22.22%)	9	(100.%)
45 to 54	0	(0.00%)	6	(54.55%)	1	(9.09%)	0	(0.00%)	4	(36.36%)	11	(100.%)
55 to 64	0	(0.00%)	3	(50.00%)	2	(33.33%)	1	(16.67%)	0	(0.00%)	6	(100.%)
65 to 74	0	(0.00%)	4	(100.00%)	0	(0.00%)	0	(0.00%)	0	(0.00%)	4	(100.%)
75 to 84	0	(0.00%)	2	(22.22%)	1	(11.11%)	3	(33.33%)	3	(33.33%)	9	(100.%)
85 and older	0	(0.00%)	1	(100.00%)	0	(0.00%)	0	(0.00%)	0	(0.00%)	1	(100.%)
Not stated	0	(0.00%)	0	(0.00%)	0	(0.00%)	0	(0.00%)	2	(100.00%)	2	(100.%)
Total	1	(0.93%)	66	(61.68%)	10	(9.35%)	12	(11.21%)	18	(16.82%)	107	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Figure 8.2
Pedestrian Crash Victims by First Weather Condition
North County Inland Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 8-3
Number of Pedestrian Victims Killed or Injured in Pedestrian Crashes
in the North County Inland Region
by Age of Victim and Type of Party at Fault
July 1, 1998 to June 30, 1999

Age of Victim	Fault in Pedestrian Crash						Total	
	Pedestrian at Fault		Other Party at Fault		Fault Not Assigned			
1 to 4	3	(100.00%)*	0	(0.00%)	0	(0.00%)	3	(100.%)
5 to 9	10	(76.92%)	3	(23.08%)	0	(0.00%)	13	(100.%)
10 to 14	12	(52.17%)	8	(34.78%)	3	(13.04%)	23	(100.%)
15 to 19	7	(63.64%)	4	(36.36%)	0	(0.00%)	11	(100.%)
20 to 24	2	(40.00%)	2	(40.00%)	1	(20.00%)	5	(100.%)
25 to 34	5	(50.00%)	5	(50.00%)	0	(0.00%)	10	(100.%)
35 to 44	4	(44.44%)	4	(44.44%)	1	(11.11%)	9	(100.%)
45 to 54	8	(72.73%)	3	(27.27%)	0	(0.00%)	11	(100.%)
55 to 64	4	(66.67%)	2	(33.33%)	0	(0.00%)	6	(100.%)
65 to 74	2	(50.00%)	2	(50.00%)	0	(0.00%)	4	(100.%)
75 to 84	3	(33.33%)	6	(66.67%)	0	(0.00%)	9	(100.%)
85 and older	1	(100.00%)	0	(0.00%)	0	(0.00%)	1	(100.%)
Not stated	1	(50.00%)	0	(0.00%)	1	(50.00%)	2	(100.%)
Total	62	(57.94%)	39	(36.45%)	6	(5.61%)	107	(100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

9: PEDESTRIAN CRASHES

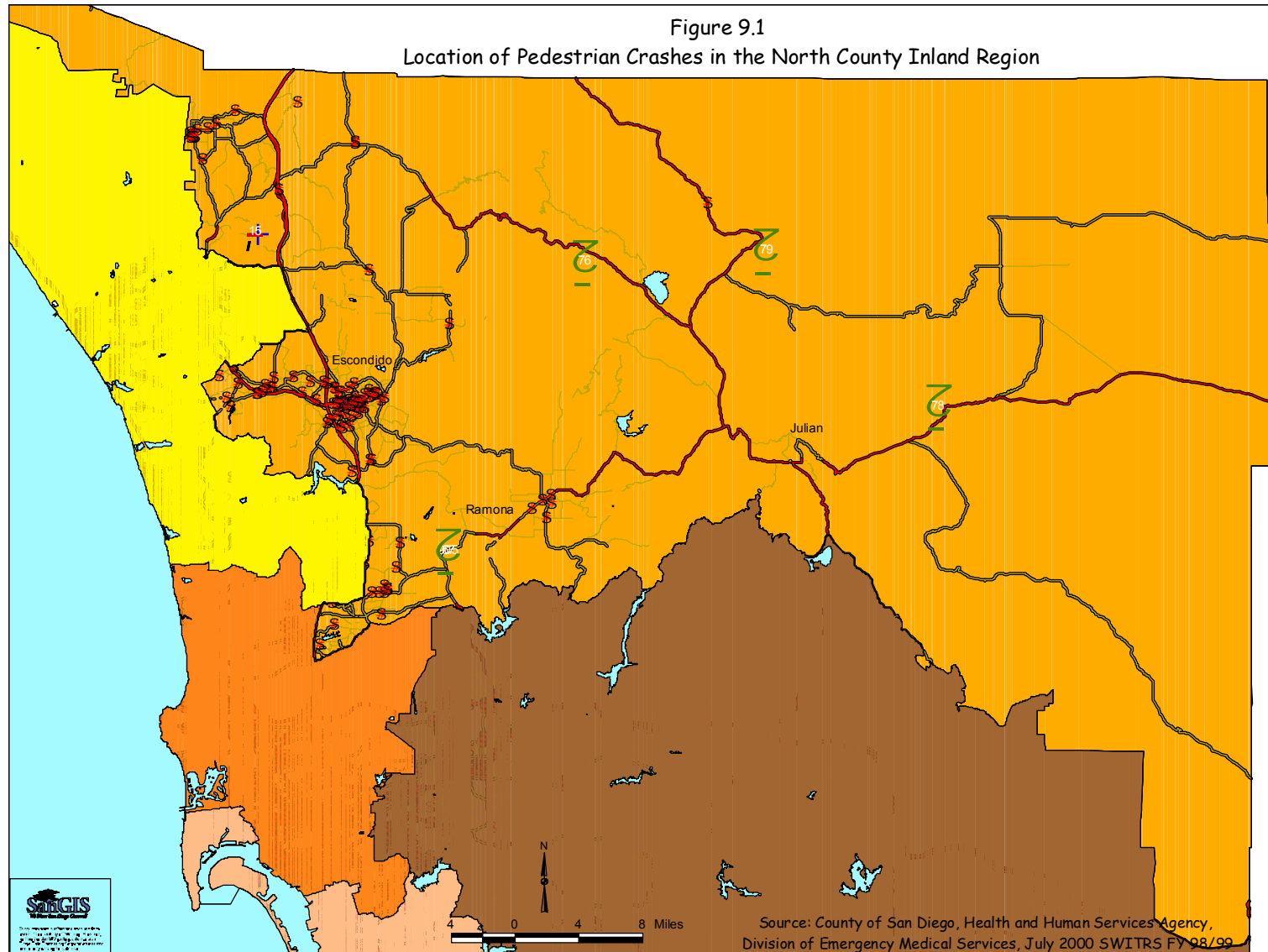


Table 9-1
Leading Violation Categories in Pedestrian Crashes by Age of Party at Fault
North County Inland Region

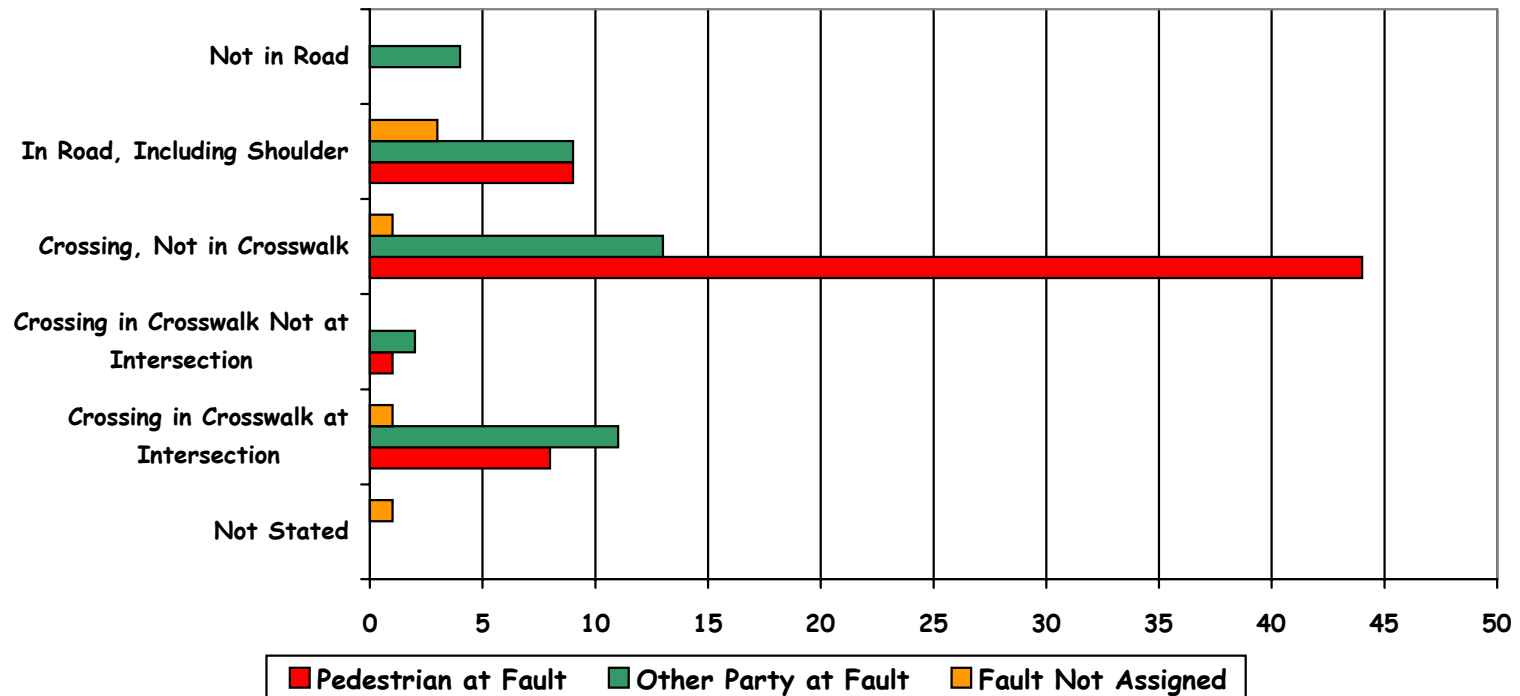
Age of Party at Fault	Rank of Violation Category						Total Number of Crashes
	1	2	3	4	5	6	
0-4	Pedestrian Violation 2	*					3
5-9	Pedestrian Violation 10						10
10-14	Pedestrian Violation 12						12
15-19	Pedestrian Violation 7	*					10
20-24	Pedestrian Violation 3	*					4
25-34	Pedestrian Violation 4	Pedestrian Right-of-Way 3	Unsafe Start/Backup 2	*			14
35-44	Pedestrian Violation 4	*					6
45-54	Pedestrian Violation 5	Pedestrian Right-of-Way 4	Peds UI Alcohol/Drugs 2†	Automobile Right-of-Way 2†	*		16
55-64	Pedestrian Violation 3	*					5
65-74	Pedestrian Violation 2	*					3
75-84	Pedestrian Violation 3	*					5
85+	*						1
All Crashes	Pedestrian Violation 57	Pedestrian Right-of-Way 13	Unsafe Start/Backup 5†	Peds UI Alcohol/Drugs 5†	Improper Turning 4†	Other Improper Driving 4†	107

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

* Violation categories leading to a single crash were not ranked.

† Tie

Figure 9.2
Pedestrian Action by Type of Party at Fault
North County Inland Region



Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99

Table 9-2a
Number of Pedestrian Crashes in the North County Inland Region
by Age of Party at Fault and Pedestrian Action
In Crashes Where the Pedestrian Was At Fault †
July 1, 1998 to June 30, 1999

Age of Party at Fault	Pedestrian Action						Total
	Not Stated	Crossing in Crosswalk at Intersection	Crossing in Crosswalk Not at Intersection	Crossing, Not in Crosswalk	In Road, Including Shoulder	Not in Road	
Not Stated	0 (0.00%)*	1 (50.00%)	0 (0.00%)	1 (50.00%)	0 (0.00%)	0 (0.00%)	2 (100.%)
1 to 4	0 (0.00%)	0 (0.00%)	0 (0.00%)	3 (100.00%)	0 (0.00%)	0 (0.00%)	3 (100.%)
5 to 9	0 (0.00%)	0 (0.00%)	0 (0.00%)	6 (60.00%)	4 (40.00%)	0 (0.00%)	10 (100.%)
10 to 14	0 (0.00%)	2 (16.67%)	1 (8.33%)	8 (66.67%)	1 (8.33%)	0 (0.00%)	12 (100.%)
15 to 19	0 (0.00%)	1 (14.29%)	0 (0.00%)	5 (71.43%)	1 (14.29%)	0 (0.00%)	7 (100.%)
20 to 24	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (100.00%)	0 (0.00%)	0 (0.00%)	2 (100.%)
25 to 34	0 (0.00%)	1 (20.00%)	0 (0.00%)	3 (60.00%)	1 (20.00%)	0 (0.00%)	5 (100.%)
35 to 44	0 (0.00%)	1 (25.00%)	0 (0.00%)	3 (75.00%)	0 (0.00%)	0 (0.00%)	4 (100.%)
45 to 54	0 (0.00%)	2 (28.57%)	0 (0.00%)	4 (57.14%)	1 (14.29%)	0 (0.00%)	7 (100.%)
55 to 64	0 (0.00%)	0 (0.00%)	0 (0.00%)	3 (75.00%)	1 (25.00%)	0 (0.00%)	4 (100.%)
65 to 74	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (100.00%)	0 (0.00%)	0 (0.00%)	2 (100.%)
75 to 84	0 (0.00%)	0 (0.00%)	0 (0.00%)	3 (100.00%)	0 (0.00%)	0 (0.00%)	3 (100.%)
85 and older	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (100.00%)	0 (0.00%)	0 (0.00%)	1 (100.%)
Total	0 (0.00%)	8 (12.90%)	1 (1.61%)	44 (70.97%)	9 (14.52%)	0 (0.00%)	62 (100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

†There were 39 crashes where the other party was at fault and 6 crashes where fault was not assigned.

Table 9-2b
Number of Pedestrian Crashes in the North County Inland Region
by Age of Party at Fault and Pedestrian Action
In Crashes Where the Other Party Was At Fault †
July 1, 1998 to June 30, 1999

Age of Party at Fault	Pedestrian Action						Total
	Not Stated	Crossing in Crosswalk at Intersection	Crossing in Crosswalk Not at Intersection	Crossing, Not in Crosswalk	In Road, Including Shoulder	Not in Road	
Not Stated	0 (0.00%)*	1 (10.00%)	2 (20.00%)	2 (20.00%)	5 (50.00%)	0 (0.00%)	10 (100.%)
15 to 19	0 (0.00%)	2 (66.67%)	0 (0.00%)	1 (33.33%)	0 (0.00%)	0 (0.00%)	3 (100.%)
20 to 24	0 (0.00%)	0 (0.00%)	0 (0.00%)	2 (100.00%)	0 (0.00%)	0 (0.00%)	2 (100.%)
25 to 34	0 (0.00%)	2 (22.22%)	0 (0.00%)	3 (33.33%)	3 (33.33%)	1 (11.11%)	9 (100.%)
35 to 44	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (50.00%)	0 (0.00%)	1 (50.00%)	2 (100.%)
45 to 54	0 (0.00%)	4 (44.44%)	0 (0.00%)	3 (33.33%)	0 (0.00%)	2 (22.22%)	9 (100.%)
55 to 64	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (100.00%)	0 (0.00%)	0 (0.00%)	1 (100.%)
65 to 74	0 (0.00%)	1 (100.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (100.%)
75 to 84	0 (0.00%)	1 (50.00%)	0 (0.00%)	0 (0.00%)	1 (50.00%)	0 (0.00%)	2 (100.%)
Total	0 (0.00%)	11 (28.21%)	2 (5.13%)	13 (33.33%)	9 (23.08%)	4 (10.26%)	39 (100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

†There were 62 crashes where the pedestrian was at fault and 6 crashes where fault was not assigned.

Table 9-3
Number of Pedestrian Crashes in the North County Inland Region
by Age of Party at Fault and First Weather Condition
July 1, 1998 to June 30, 1999

Age of Party at Fault	First Weather Condition				Total
	Not Stated	Clear	Cloudy	Raining	
Not Stated	0 (0.00%)*	11 (91.67%)	0 (0.00%)	1 (8.33%)	12 (100.%)
1 to 4	0 (0.00%)	3 (100.00%)	0 (0.00%)	0 (0.00%)	3 (100.%)
5 to 9	0 (0.00%)	10 (100.00%)	0 (0.00%)	0 (0.00%)	10 (100.%)
10 to 14	0 (0.00%)	8 (66.67%)	4 (33.33%)	0 (0.00%)	12 (100.%)
15 to 19	0 (0.00%)	8 (80.00%)	1 (10.00%)	1 (10.00%)	10 (100.%)
20 to 24	0 (0.00%)	4 (100.00%)	0 (0.00%)	0 (0.00%)	4 (100.%)
25 to 34	0 (0.00%)	12 (85.71%)	2 (14.29%)	0 (0.00%)	14 (100.%)
35 to 44	0 (0.00%)	5 (83.33%)	1 (16.67%)	0 (0.00%)	6 (100.%)
45 to 54	0 (0.00%)	12 (75.00%)	3 (18.75%)	1 (6.25%)	16 (100.%)
55 to 64	0 (0.00%)	3 (60.00%)	2 (40.00%)	0 (0.00%)	5 (100.%)
65 to 74	0 (0.00%)	2 (66.67%)	0 (0.00%)	1 (33.33%)	3 (100.%)
75 to 84	0 (0.00%)	5 (100.00%)	0 (0.00%)	0 (0.00%)	5 (100.%)
85 and older	0 (0.00%)	1 (100.00%)	0 (0.00%)	0 (0.00%)	1 (100.%)
Fault Not Assigned	1 (16.67%)	4 (66.67%)	1 (16.67%)	0 (0.00%)	6 (100.%)
Total	1 (0.93%)	88 (82.24%)	14 (13.08%)	4 (3.74%)	107 (100.%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are row percents.

Table 9-4
Number of Pedestrian Crashes in the North County Inland Region
by Age and Gender of Party at Fault and Type of Party at Fault
July 1, 1998 to June 30, 1999

Age of Party at Fault	Fault in Pedestrian Crash†							
	Pedestrian at Fault				Other Party at Fault			
	Gender of Party at Fault††				Gender of Party at Fault††			
	Male		Female		Male		Female	
Not Stated	2	(3.23%)*	0	(0.00%)	3	(8.82%)	2	(5.88%)
1 to 4	1	(1.61%)	2	(3.23%)	0	(0.00%)	0	(0.00%)
5 to 9	5	(8.06%)	5	(8.06%)	0	(0.00%)	0	(0.00%)
10 to 14	10	(16.13%)	2	(3.23%)	0	(0.00%)	0	(0.00%)
15 to 19	5	(8.06%)	2	(3.23%)	1	(2.94%)	2	(5.88%)
20 to 24	1	(1.61%)	1	(1.61%)	2	(5.88%)	0	(0.00%)
25 to 34	3	(4.84%)	2	(3.23%)	5	(14.71%)	4	(11.76%)
35 to 44	3	(4.84%)	1	(1.61%)	2	(5.88%)	0	(0.00%)
45 to 54	3	(4.84%)	4	(6.45%)	4	(11.76%)	5	(14.71%)
55 to 64	2	(3.23%)	2	(3.23%)	1	(2.94%)	0	(0.00%)
65 to 74	1	(1.61%)	1	(1.61%)	1	(2.94%)	0	(0.00%)
75 to 84	3	(4.84%)	0	(0.00%)	2	(5.88%)	0	(0.00%)
85 and older	0	(0.00%)	1	(1.61%)	0	(0.00%)	0	(0.00%)
Total	39	(62.90%)	23	(37.10%)	21	(61.76%)	13	(38.24%)

Source: County of San Diego, Health and Human Services Agency, Division of Emergency Medical Services, SWITRS database FY 98/99.

*Numbers in parentheses are age and gender percents.

†Fault was not assigned in 6 crashes.

††Gender of party at fault was not stated for 5 other parties.